

Figure A shows the element that helps the other element

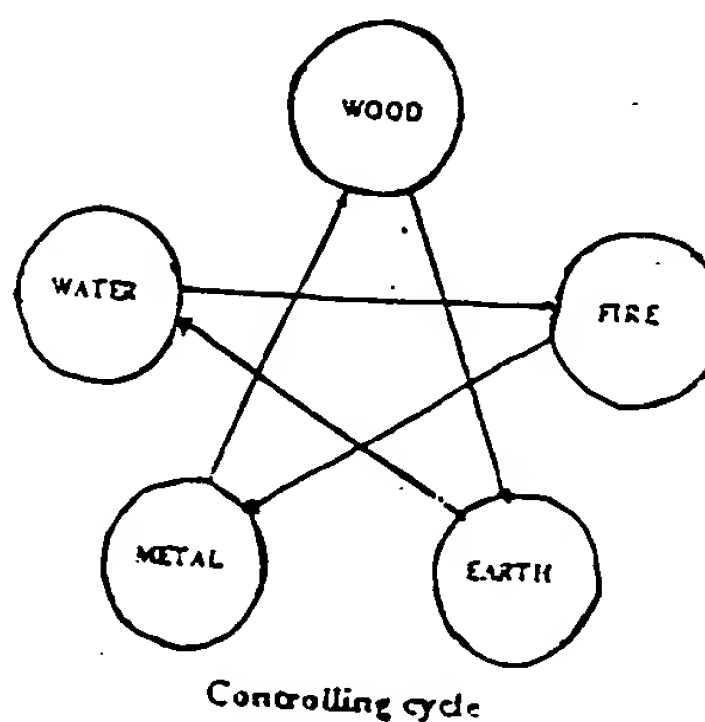


Figure B shows the element that controls the other element

~~Any imbalance (excess or deficiency) of one element leads to disturbance in other elements and becomes the root cause of a disease. The health of human body is achieved by managing and controlling the above elements in Chinese medicine. Most of the world traditional philosophies follow the same concept.~~

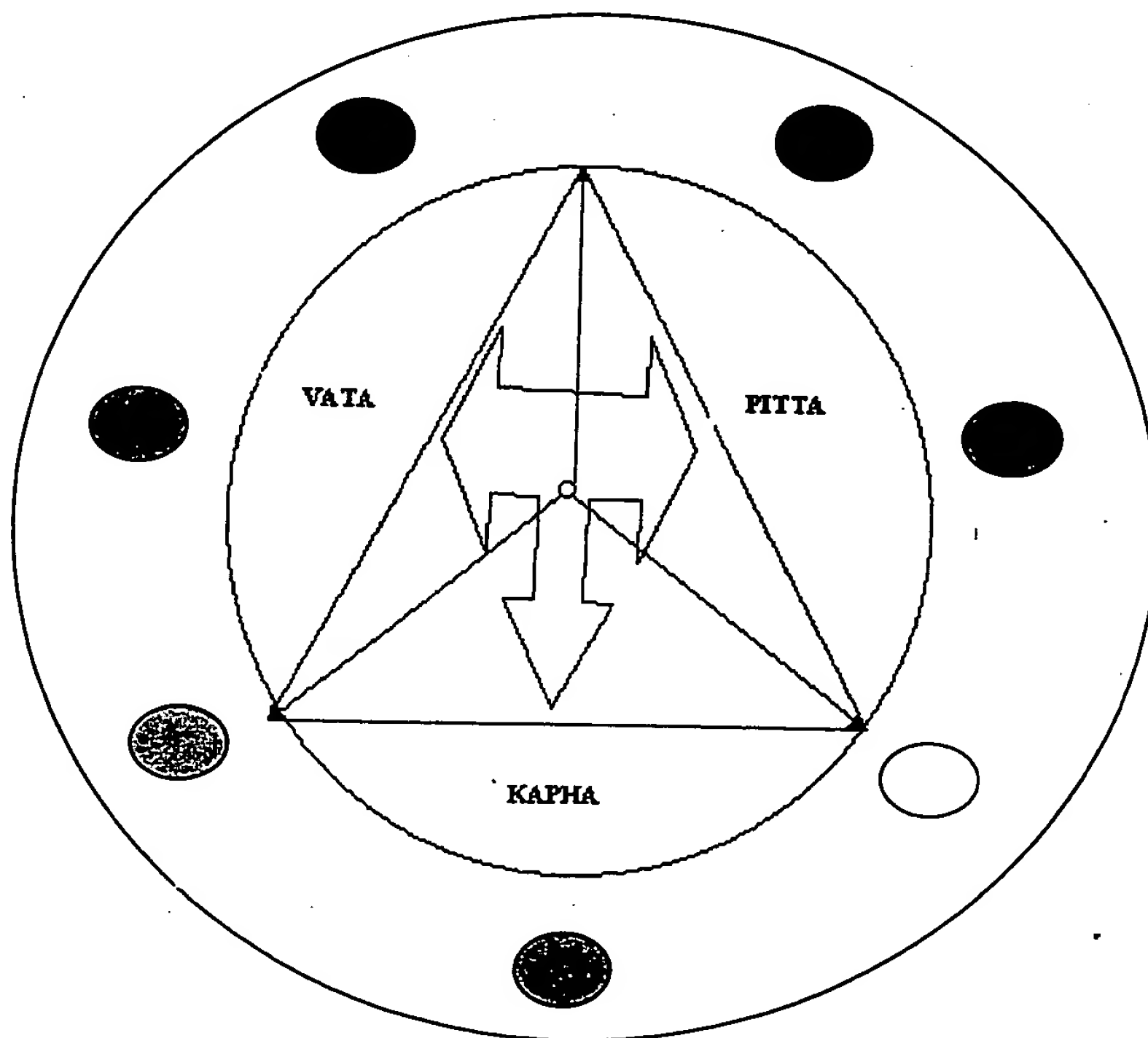
Figure 1

Prior Art

Figure 2
Prior Art

~~Relation of colors with humors~~

| | | |
|------|-------|-------|
| | | |
| | | |
| VATA | KAPHA | PITTA |

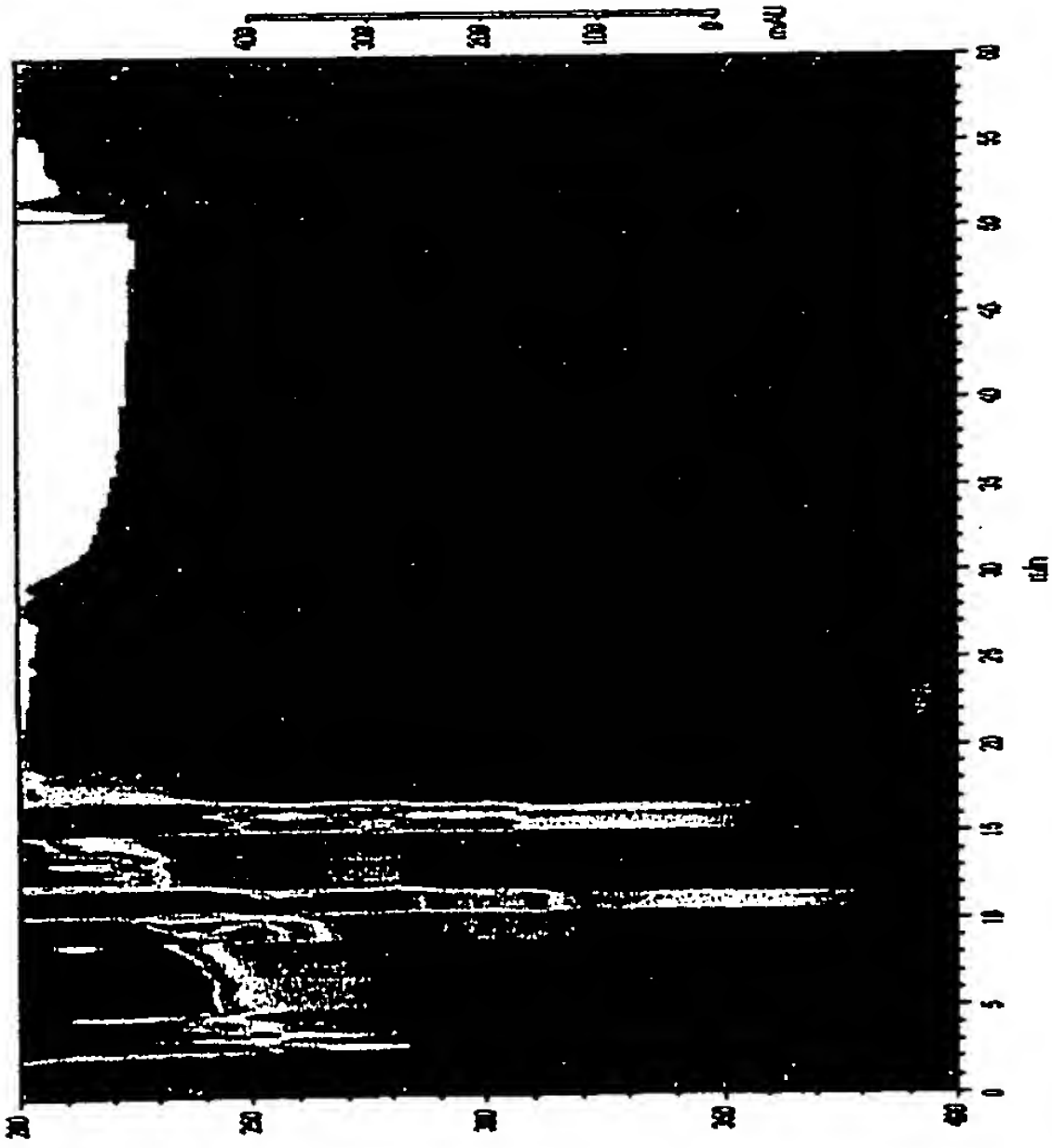


~~Figure 3~~

Figure 3

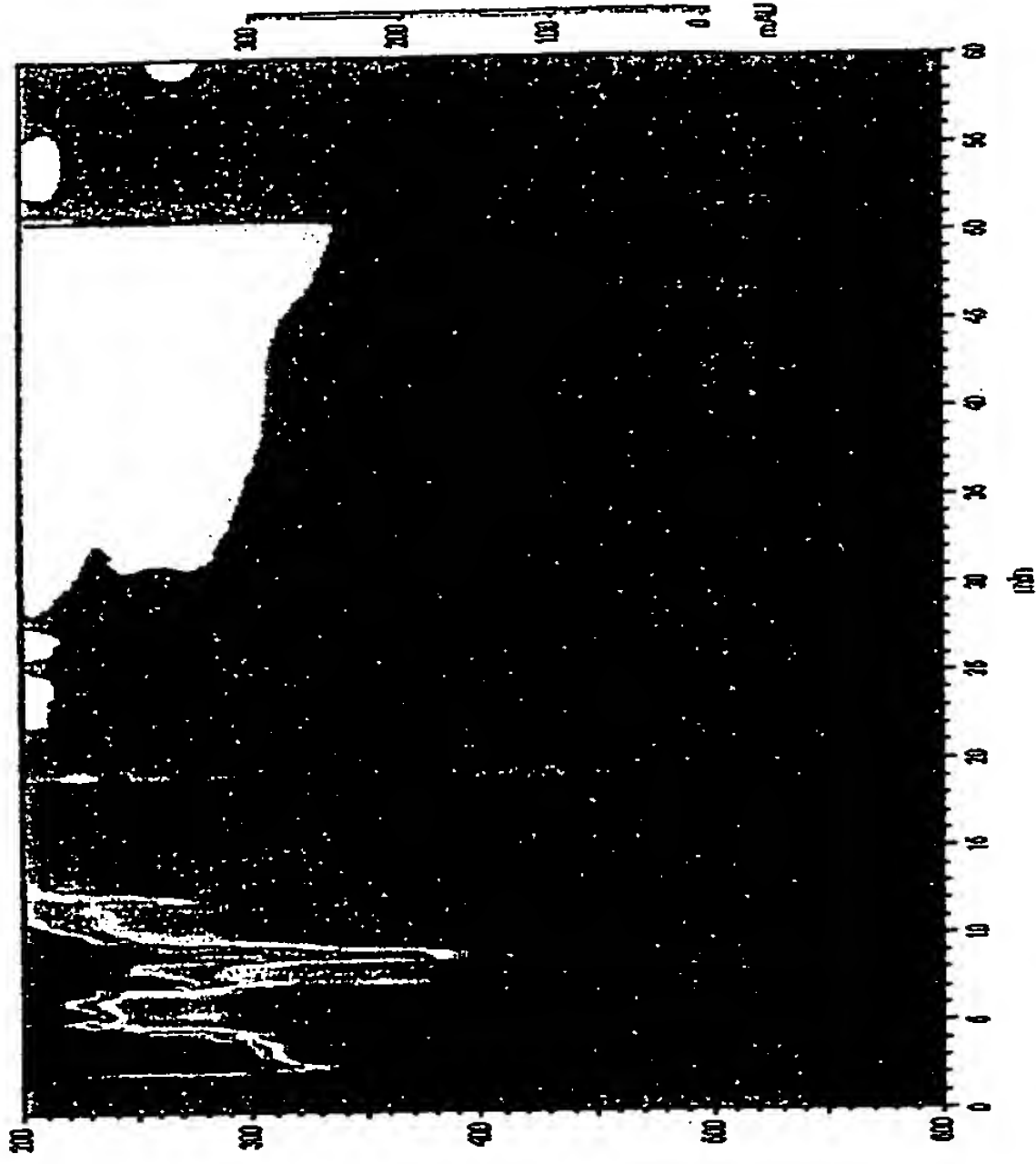
~~THE SHILAJIT EXAMPLE~~

Figure 4



SHILAJIT

GOOD BY EFFICACY



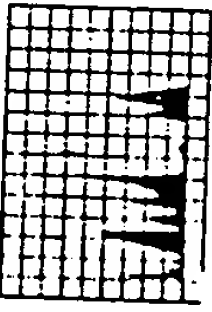
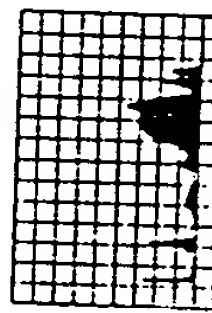
SHILAJIT

POOR BY EFFICACY

Figure 4

Herbal formulations with the same ingredients may differ substantially in safety and efficacy depending on the quality and processing of the herbs. Careful selection of herbs, stringent quality control and Chromatographic fingerprinting ensure that the final product delivers the same benefits that have been proven in clinical studies.

Each **Ayurvedic CONCEPTS** formula represents the results of subjecting ancient Ayurvedic knowledge to rigorous modern research and scientific analysis. These products are manufactured according to the rigid standards of modern pharmaceutical technology.

Store in a cool, dry place.
Keep out of the reach of children.


Research expertise by:
THE HIMALAYA DRUG CO.
MAKALI, BANGALORE - 562 123 (INDIA)
Enriching Ayurveda Through Research Since 1930

ID-CC-DH-11-X07-01

Antistressor • Rejuvenator
Amla • Licorice
• Natural Zinc

60 CAPSULES

Made in India by:
THE HIMALAYA DRUG CO.
MAKALI, BANGALORE - 562 123 (INDIA)



Daily Health Capsules

Each capsule contains:

| | |
|---------------|----------|
| Pdts. | |
| Amlaki | 90 mg |
| Garijara | 90 mg |
| Yashad bhasma | 1.94 mg |
| Exts. | |
| Amra | 120 mg |
| Yashti-madhu | 25 mg |
| Lavanga | 25 mg |
| Draksha | 10.50 mg |
| Oil | |
| Godhuma | 17.56 mg |

Dosage:
2 capsules twice a day.

Natural products provide gradual but long-lasting results. Allow several weeks for full benefits.

Mfg. Lic. No.: AI 15-83
M.R.P.: Rs. 60.00
(Incl. of all taxes)
Exp.: 3 yrs. from date of Mfg.
B.No.: 90702
Mfd.: July 99

Relieves stress, mental fatigue, RLS a healthy equilibrium.

Stress has become part of life today. Continued stress disrupts the immune system leading to chronic fatigue, hypertension. Pollution and chemicals cause oxidative damage to the body by the release of free radicals, thereby disturbing normal body functions.

Daily Health capsules are non-sedating rich in anti-oxidant vitamins in the form of Amra and Garijara (vit.A), Amlaki (Amla) (vit.C), and Lavanga (Clove), Draksha (Grapes) and Godhuma (Wheatgerm) oil (vit.E). Yashti-madhu (Licorice) and Yashad bhasma (Natural Zinc) are excellent immune-stimulants that bolster the body's defence mechanism keeping you fit and healthy.

Clinical trials on the product have proved it to be beneficial in the treatment of stress of various origins.

Ayurvedic Proprietary Medicine.
Completely safe. Non-toxic.
NON-SEDATING.

The chromatographic fingerprint does not give any clear information about the polarity and conjugative properties of the constituents.

CHROMATOGRAMS OF A COMMERCIAL TURMERIC POWDER AT

AT DIFFERENT WAVELENGTHS

(The existing method)

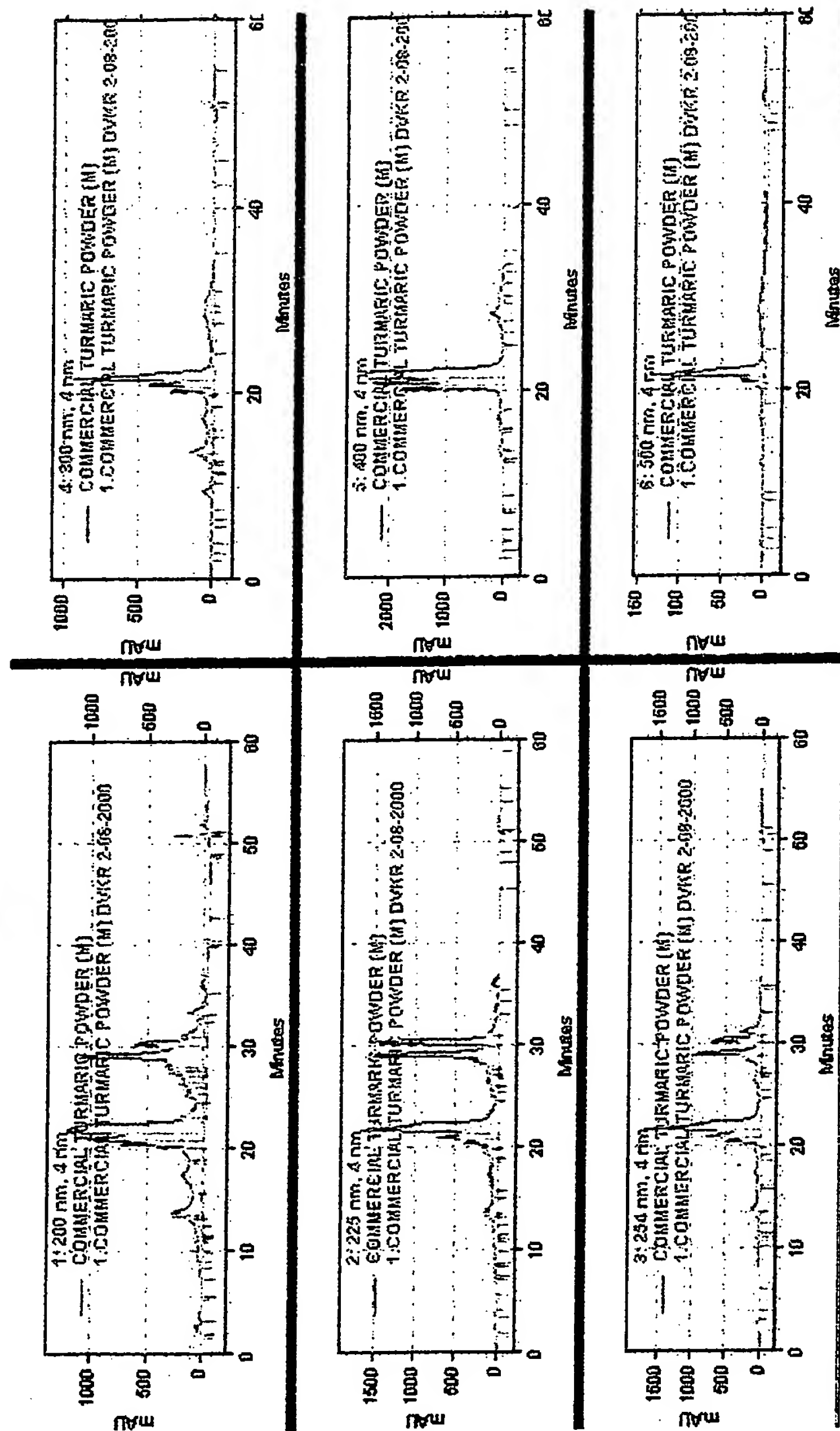


Figure 5

CHROMATOGRAMS OF A FURAZOLIDINE MEDICINE

AT DIFFERENT WAVELENGTHS

(The existing method)

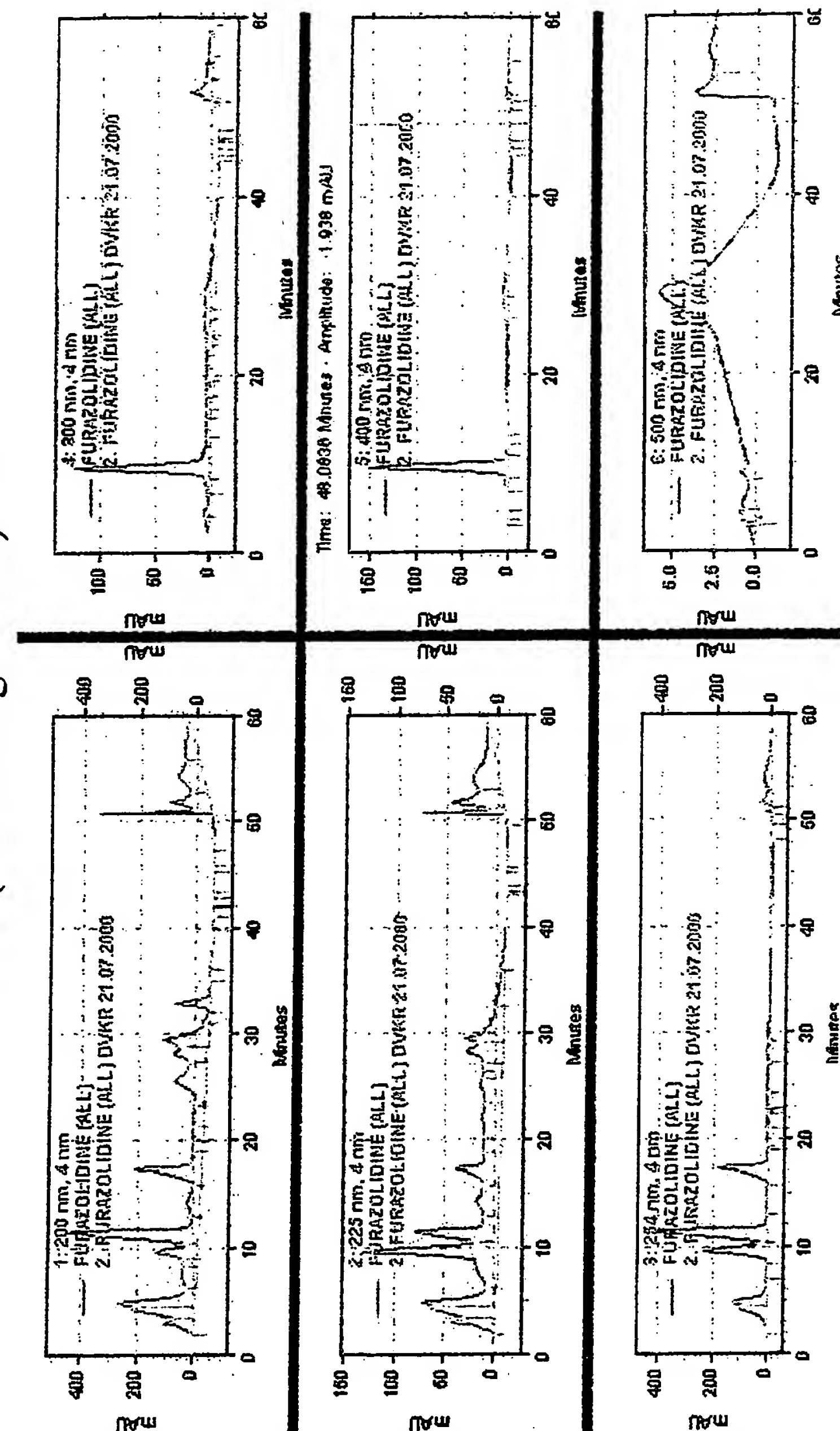


Figure 6

CHROMATOGRAMS OF A HERBAL FORMULATION

KRIMI KUTARA RAS

AT DIFFERENT WAVELENGTHS

(The existing method)

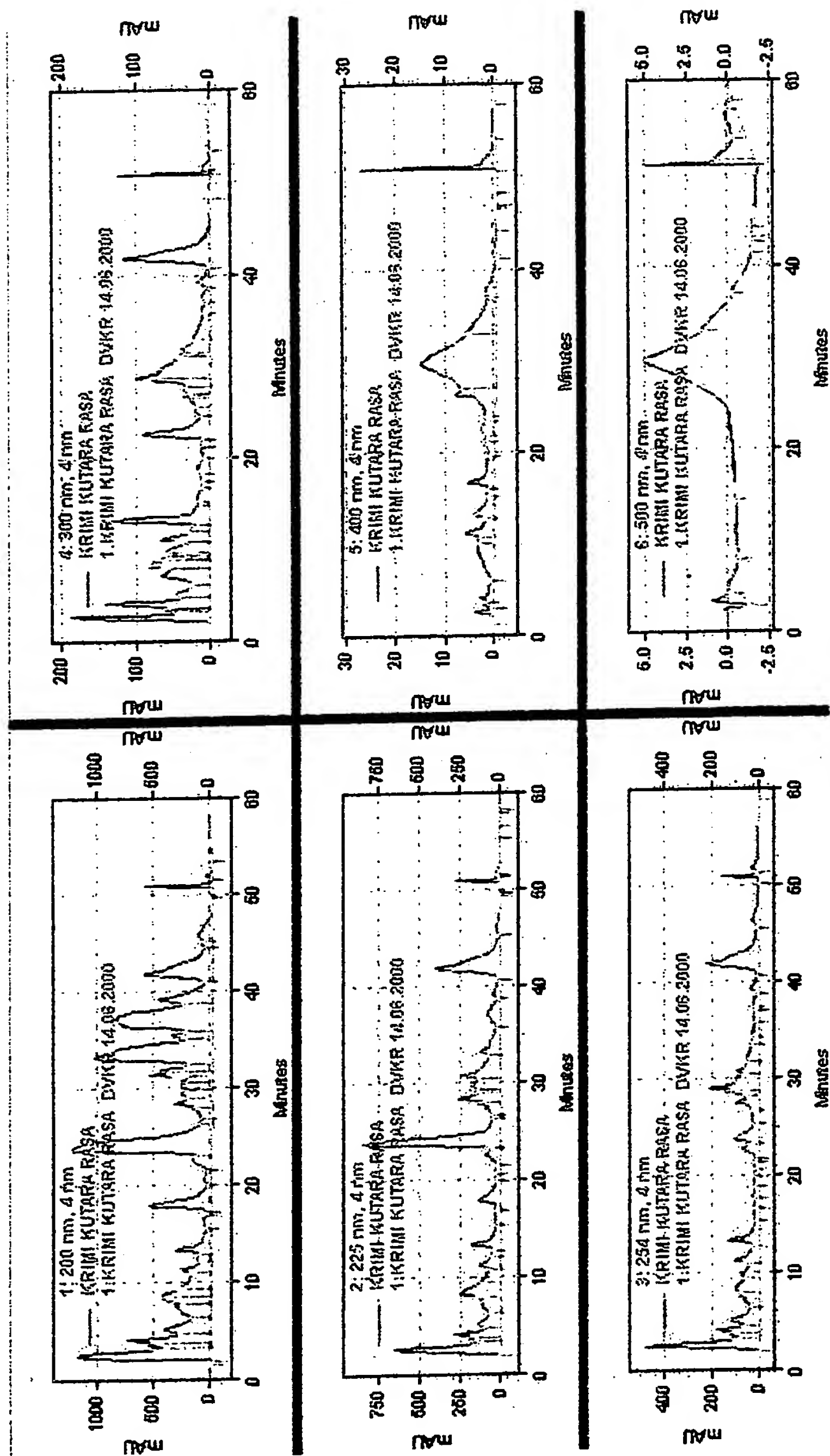


Figure 7

CHROMATOGRAMS OF A HERBOMINERAL MEDICINE

SHILAJIT (GOOD BY EFFICACY)

AT DIFFERENT WAVELENGTHS

(The existing method)

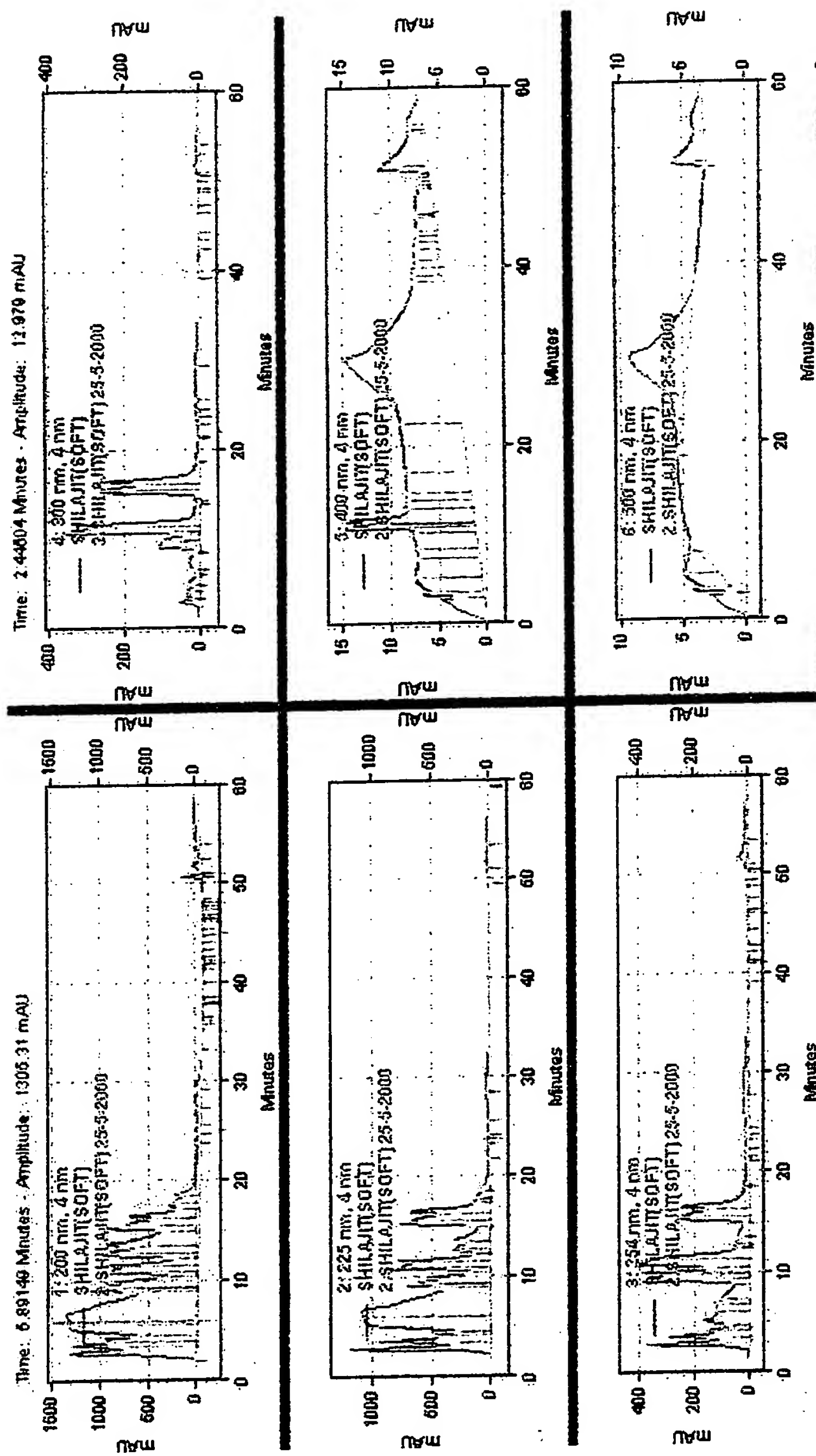


Figure 8

~~CHROMATOGRAMS OF A HERBOMINERAL MEDICINE~~

~~SHILAJIT (POOR BY EFFICACY)~~

~~AT DIFFERENT WAVELENGTHS~~

~~(The existing method)~~

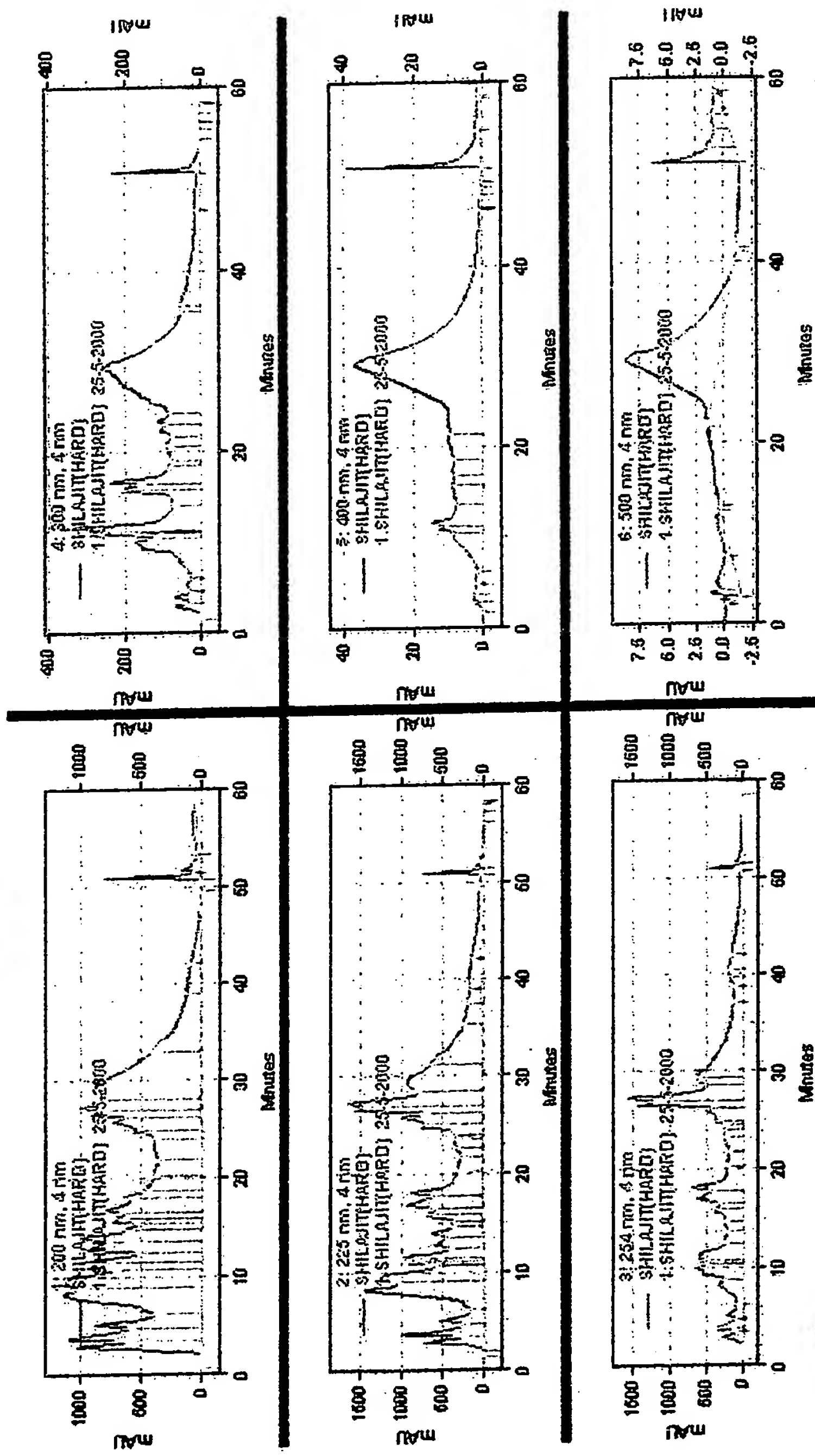


Figure 9

CHROMATOGRAMS OF A HERBAL FORMULATION

SURYAVARTI

AT DIFFERENT WAVELENGTHS

(The existing method)

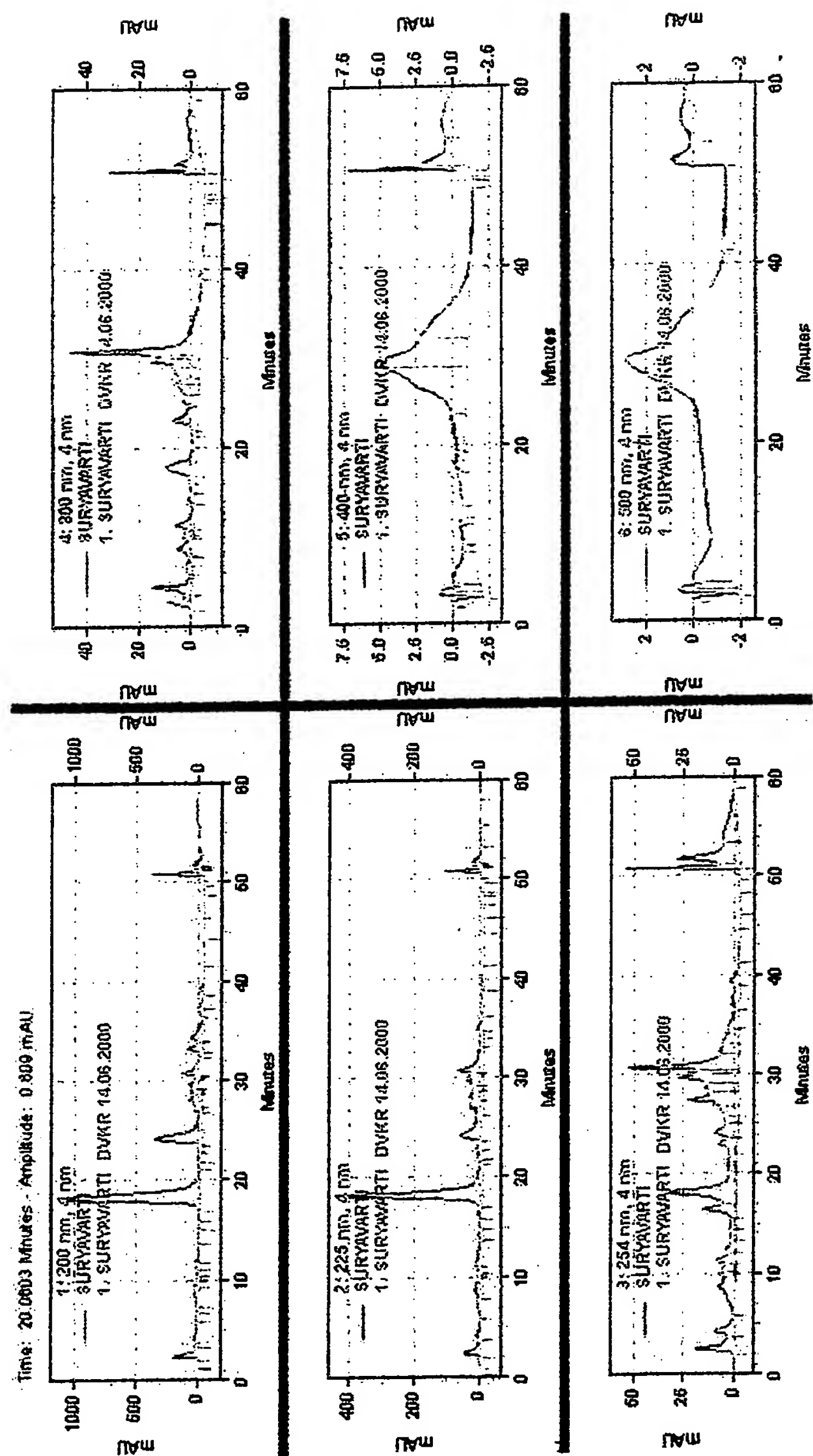


Figure 10

CHROMATOGRAMS OF A HERBAL FOOD PRODUCT

TEA

AT DIFFERENT WAVELENGTHS

(The existing method)

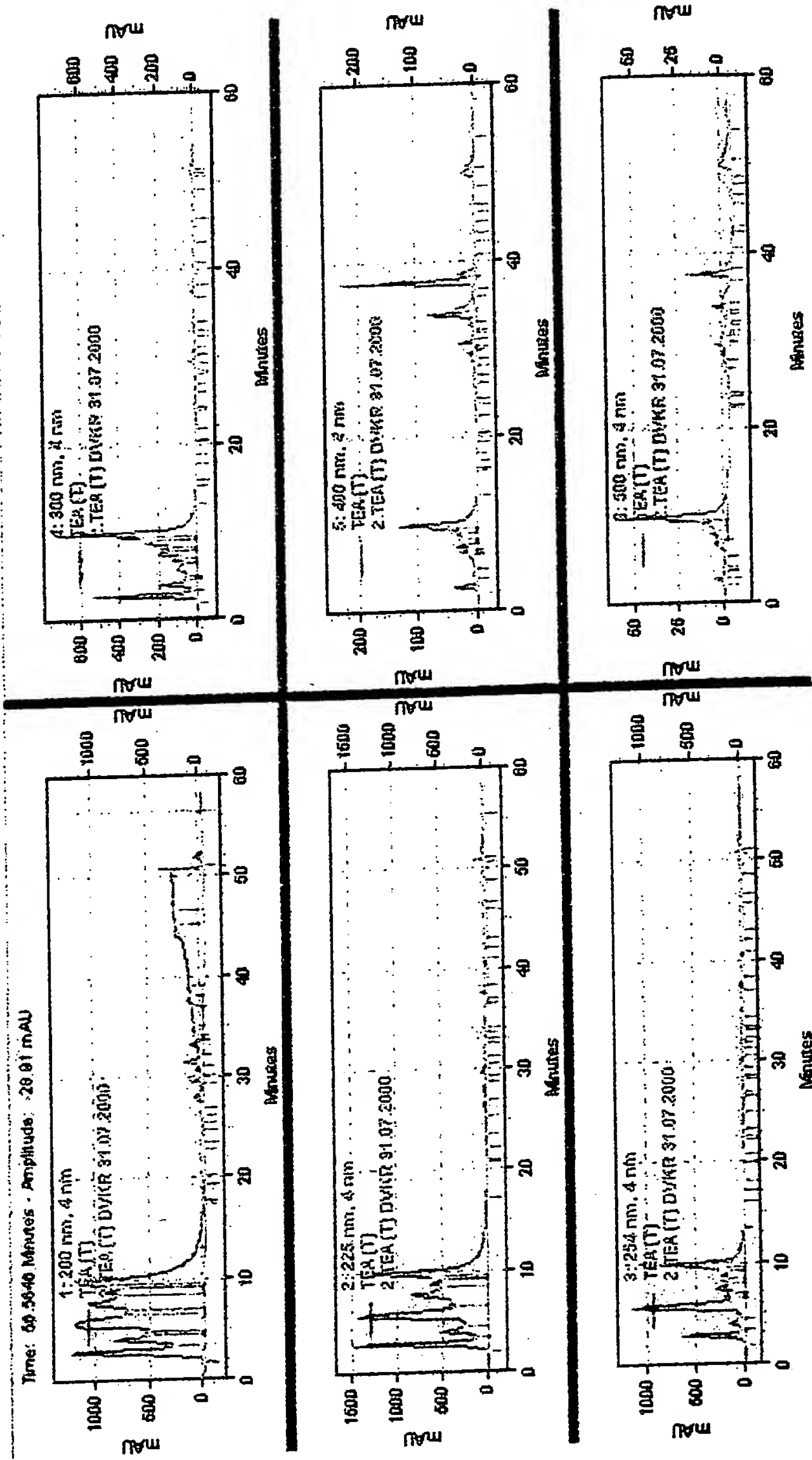


Figure 11

~~CHROMATOGRAMS OF A HERBAL FORMULATION~~ ~~TRIKATU (A FORMULATION OF PIPPALI, MARICHA AND SHUNTHI)~~

~~AT DIFFERENT WAVELENGTHS~~

~~(The existing method)~~

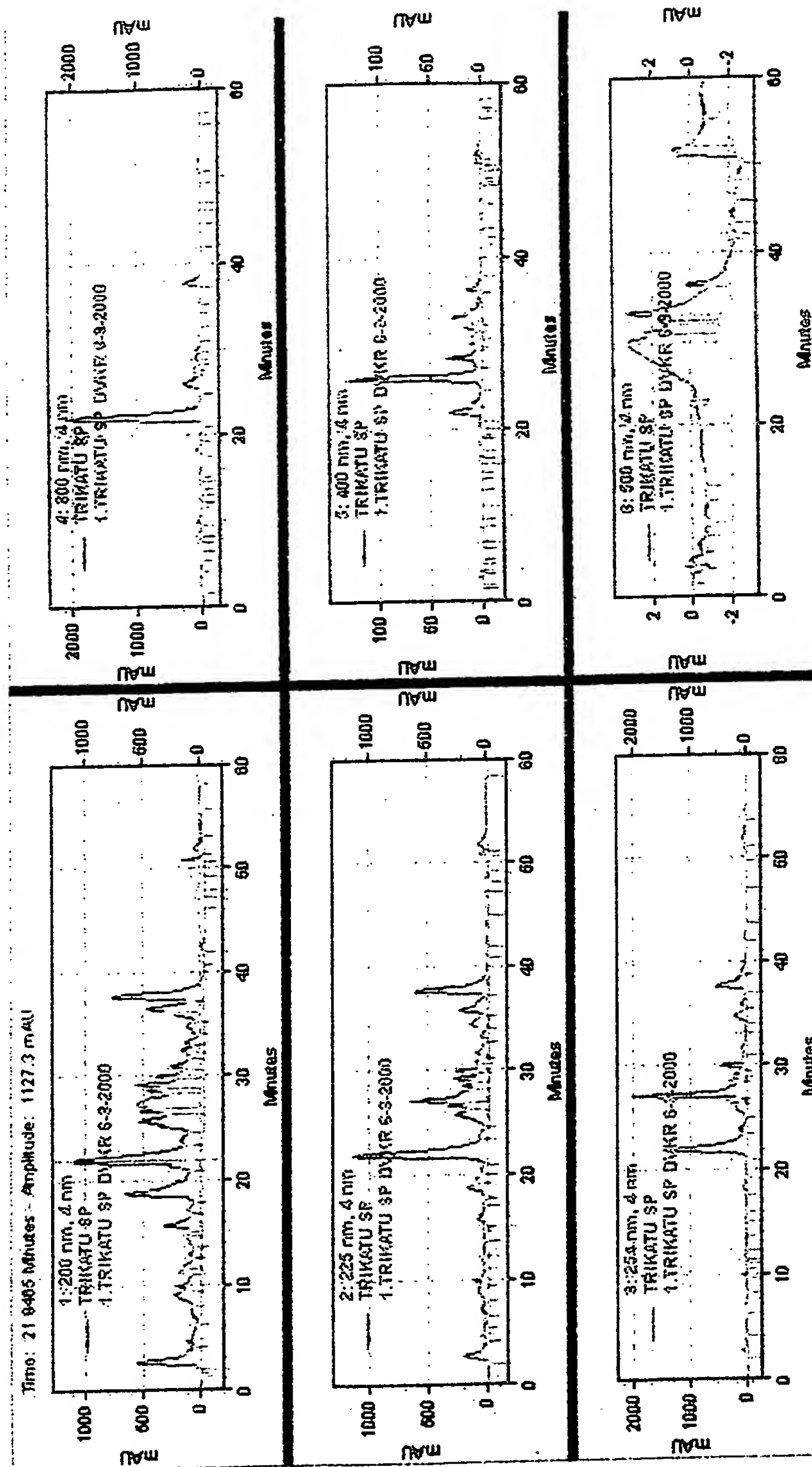
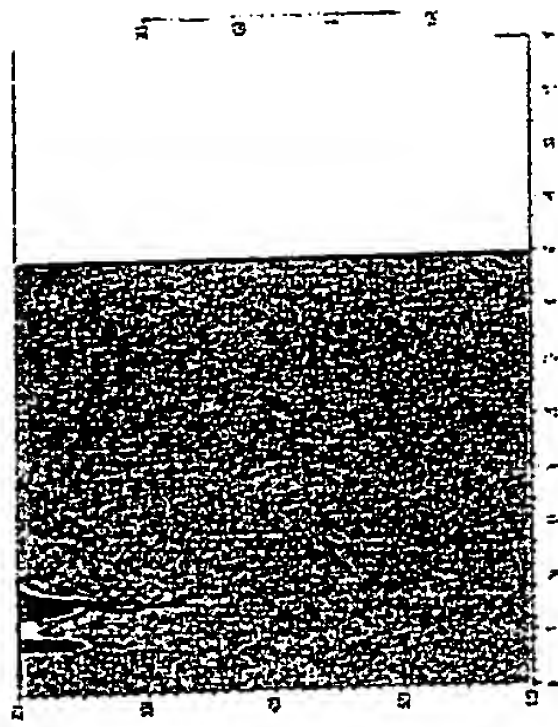
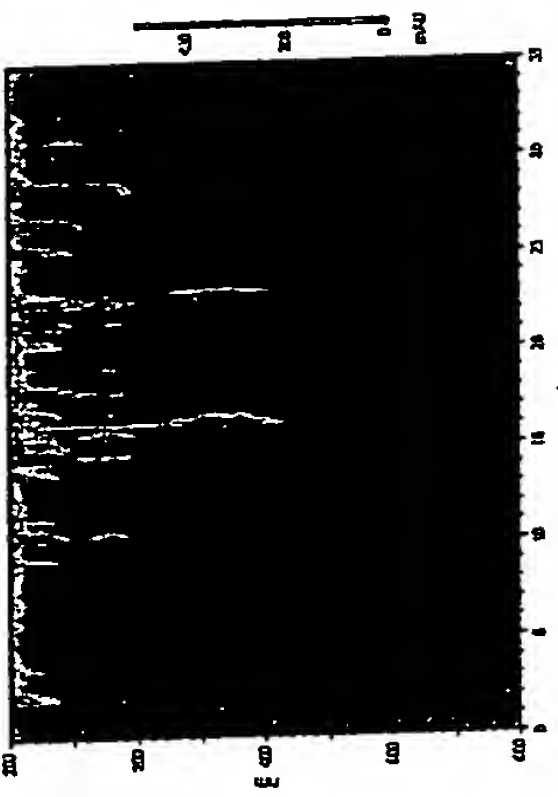


Figure 12

~~THE YELLOW MEDICINES~~



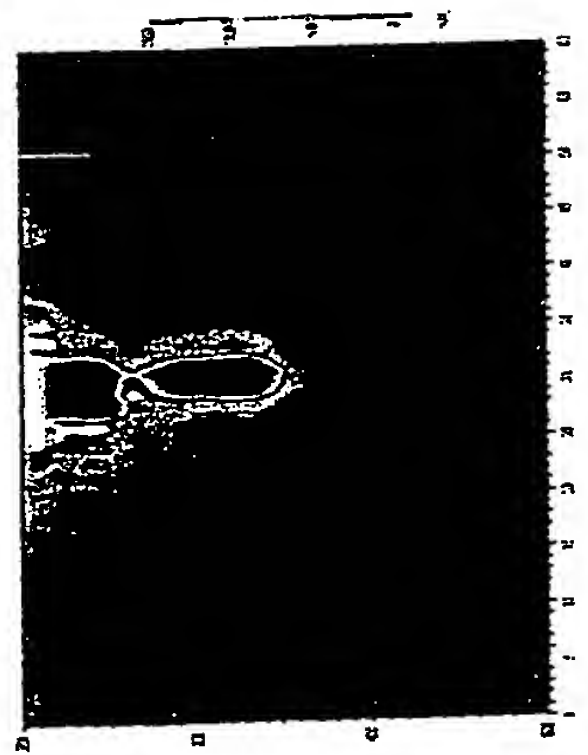
COSCINIUM
FENESTRATUM



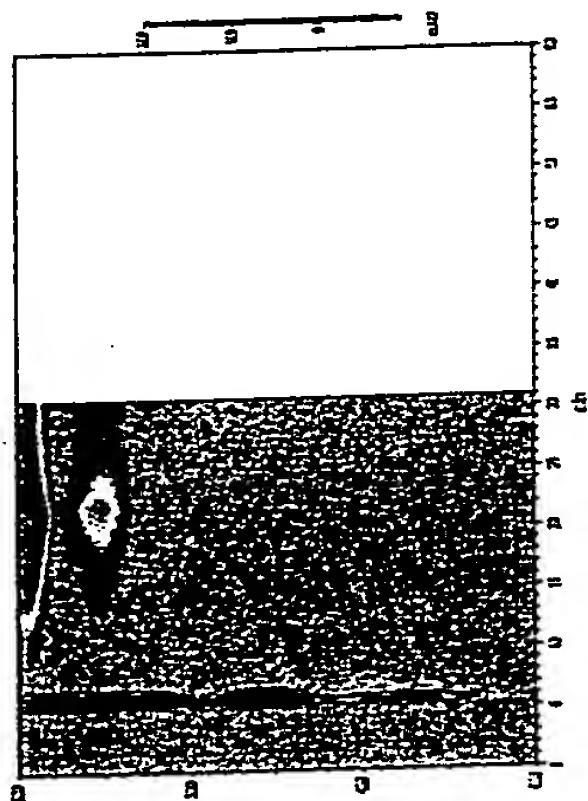
ZINZIBER OFFICINALE
(PROCESSED)



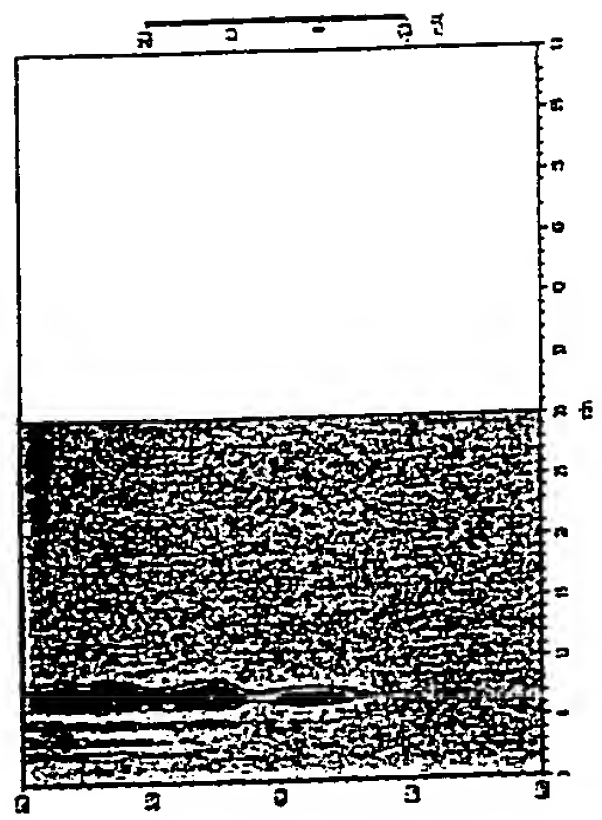
CURCUMA LONGA



CUMMIPHORA MUKUL



BERBERIN
(FLUKA STANDARD)

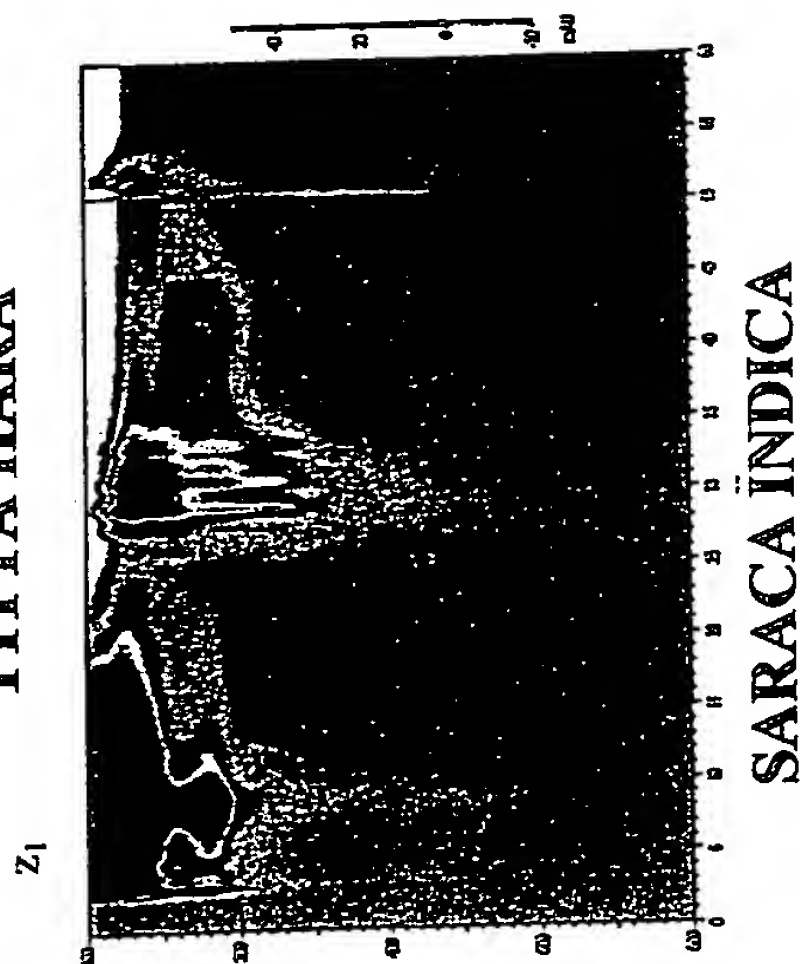


BERBERIS ARISTATA

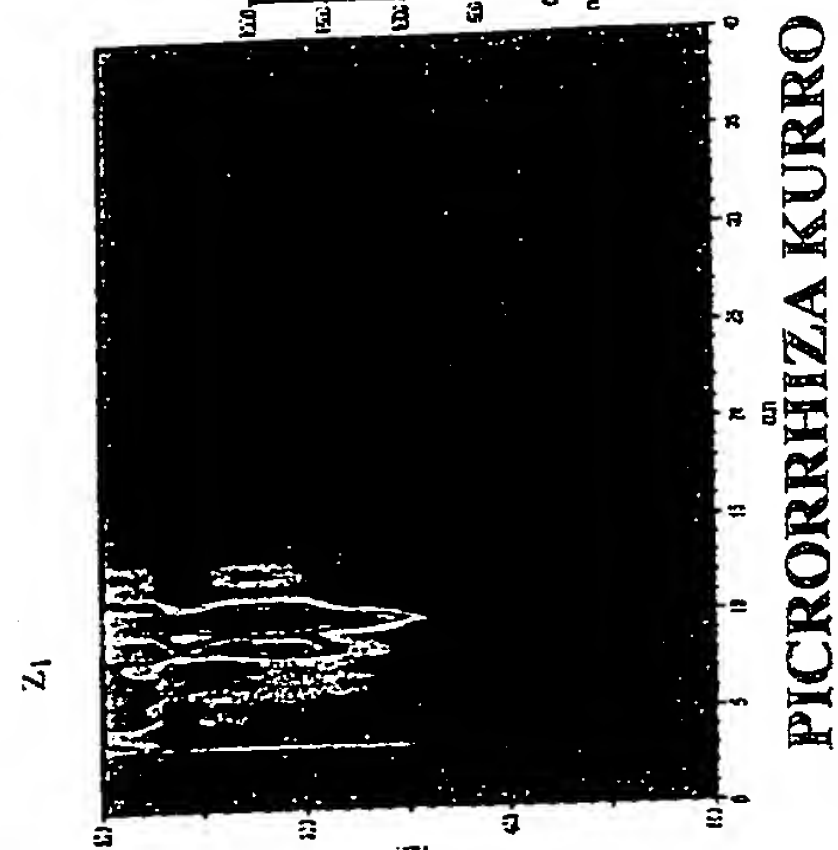
~~THE FINGERPRINTS OF CONTRAVERSIAL DRUGS (SANDIGDHA DRAVYAS) SHOWS
A CLEAR DIFFERENCE IN APPEARANCE MAKING THE IDENTIFICATION MORE EASY.~~

Figure 13

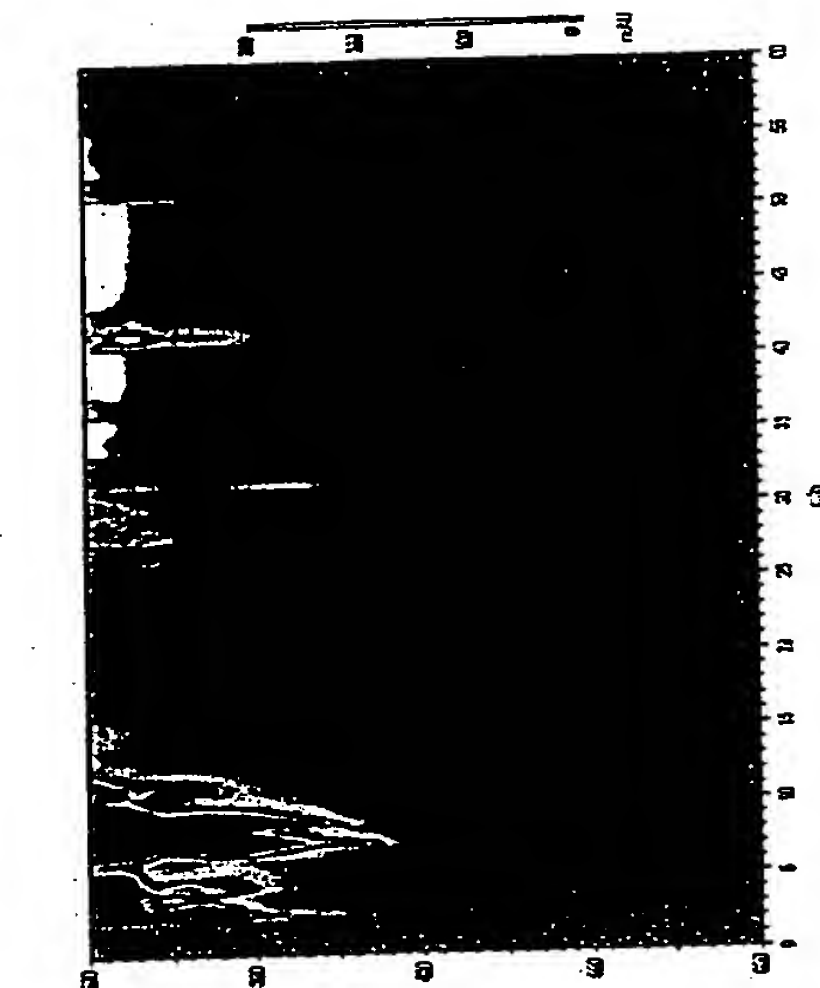
PITTA HARA



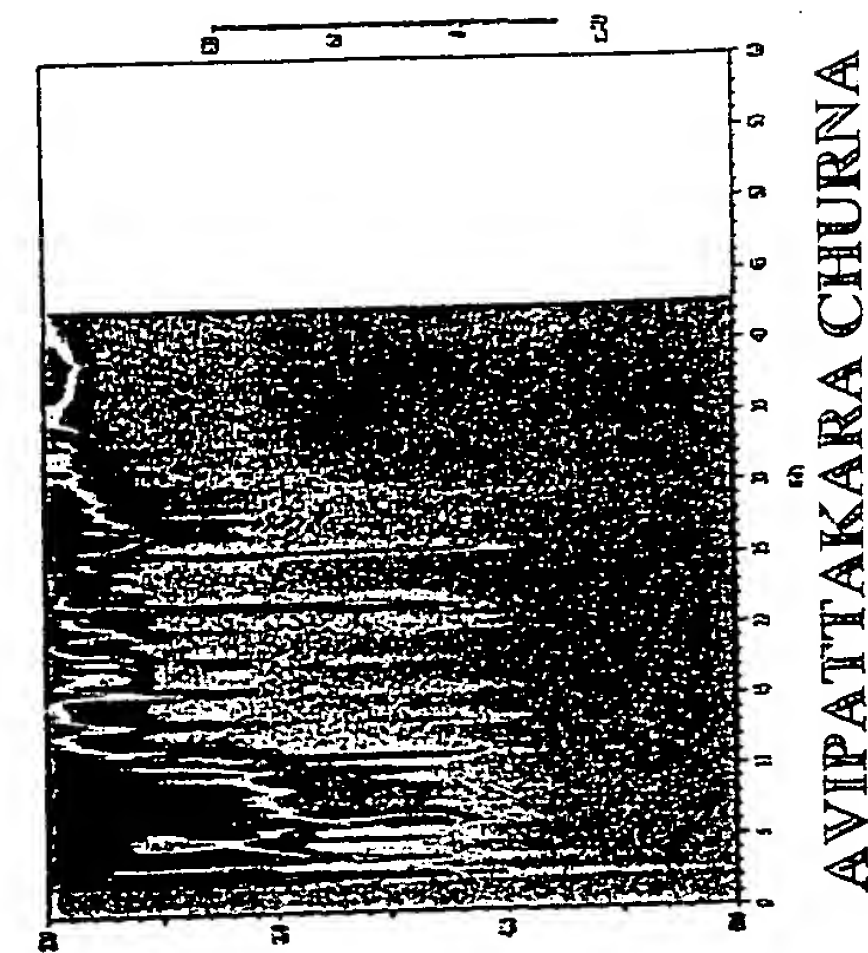
SARACA INDICA



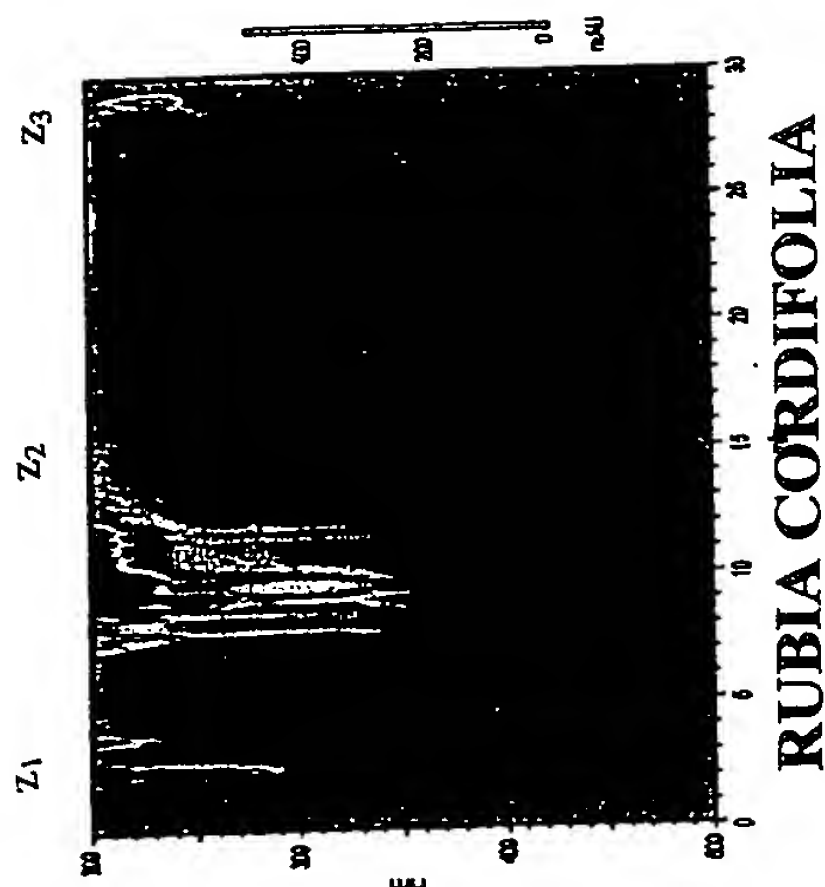
PICRORRHIZA KURRO



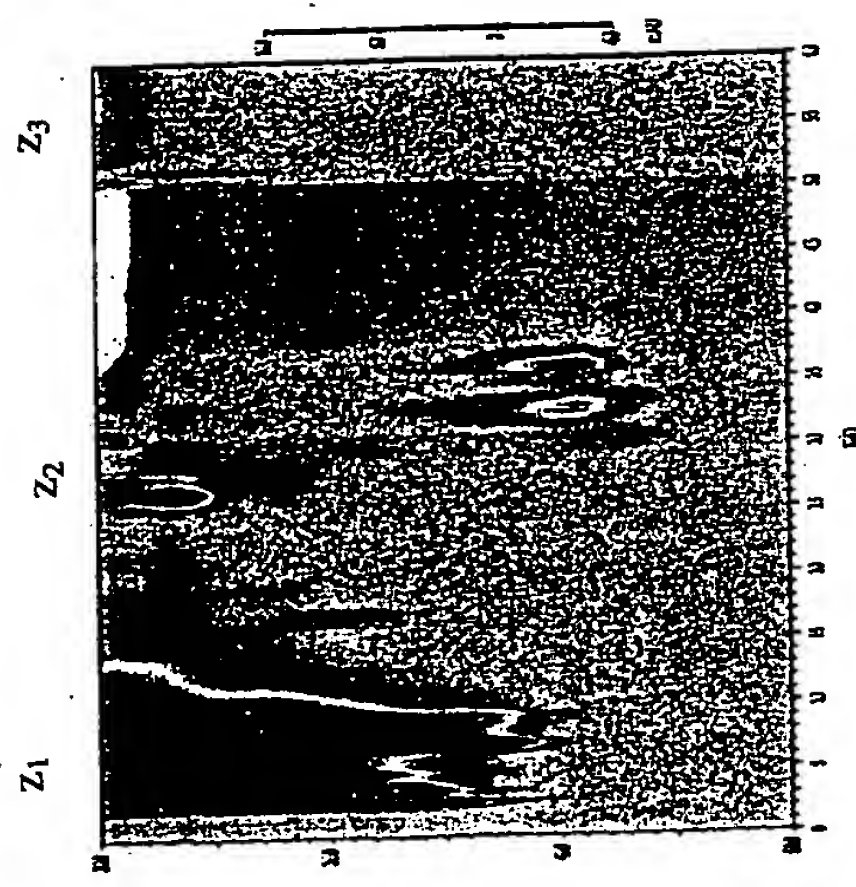
AROGYA VARDHINI



AVIPATTAKARA CHURNA



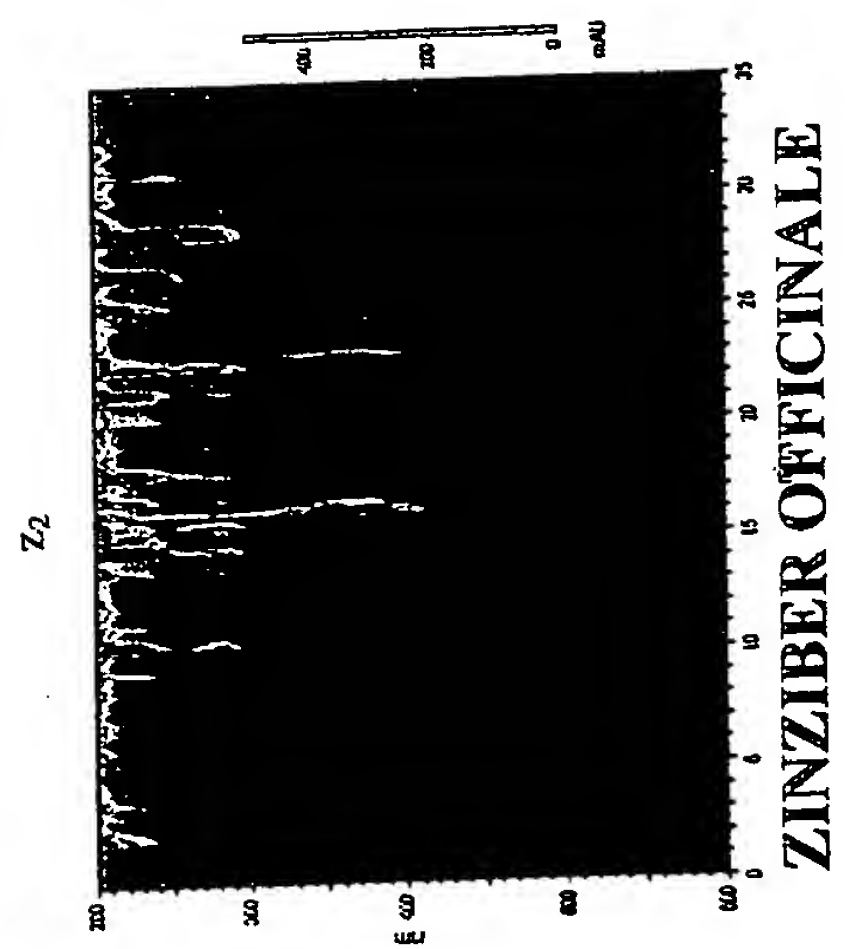
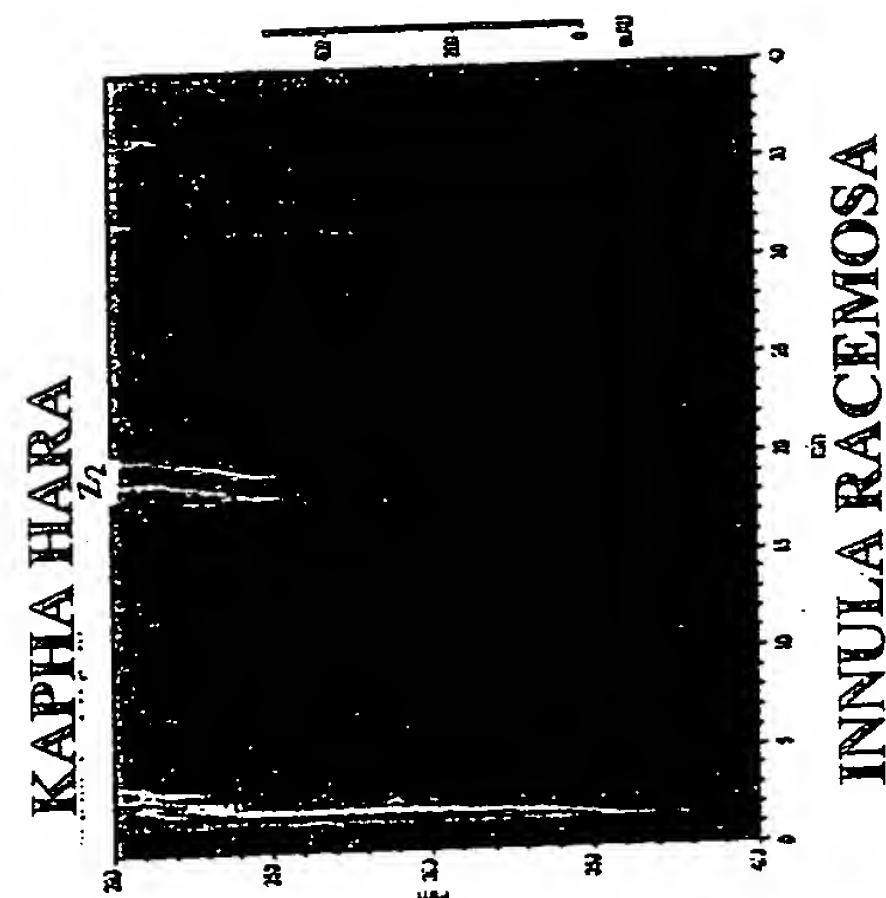
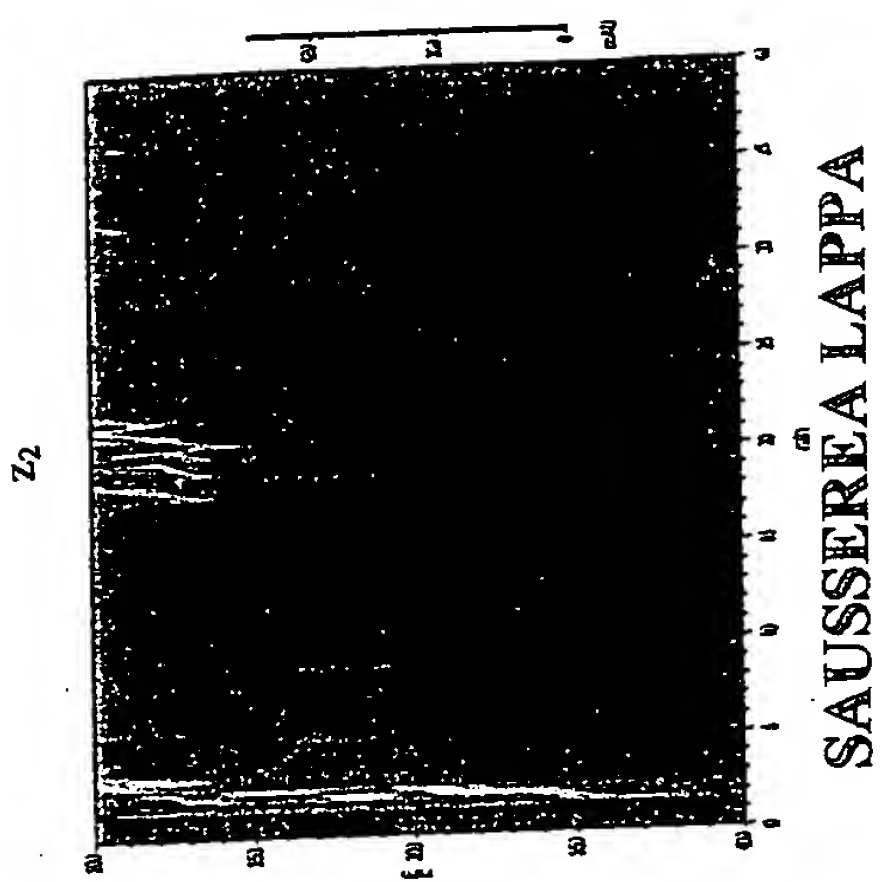
RUBIA CORDIFOLIA



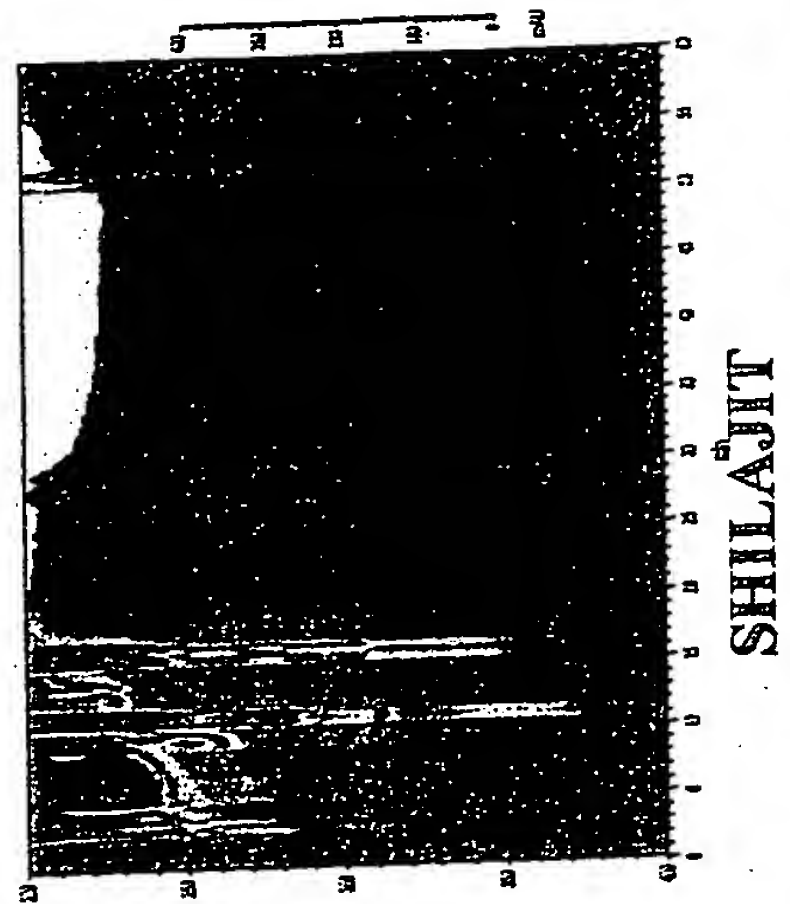
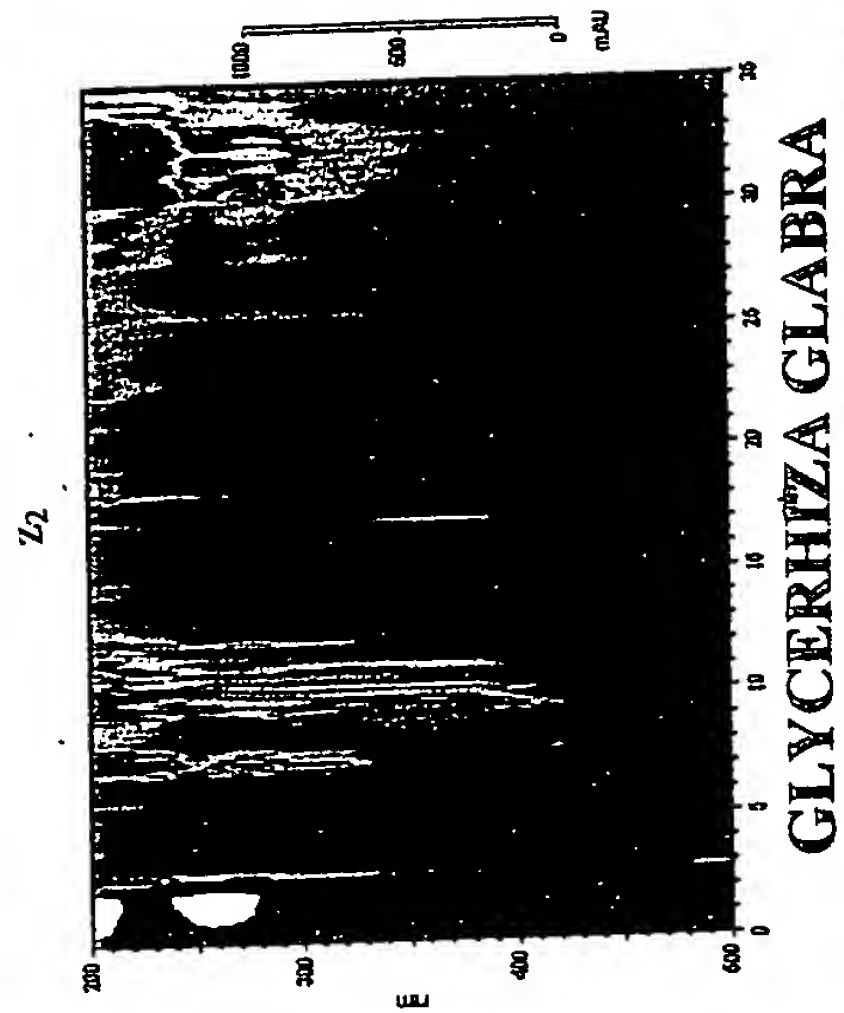
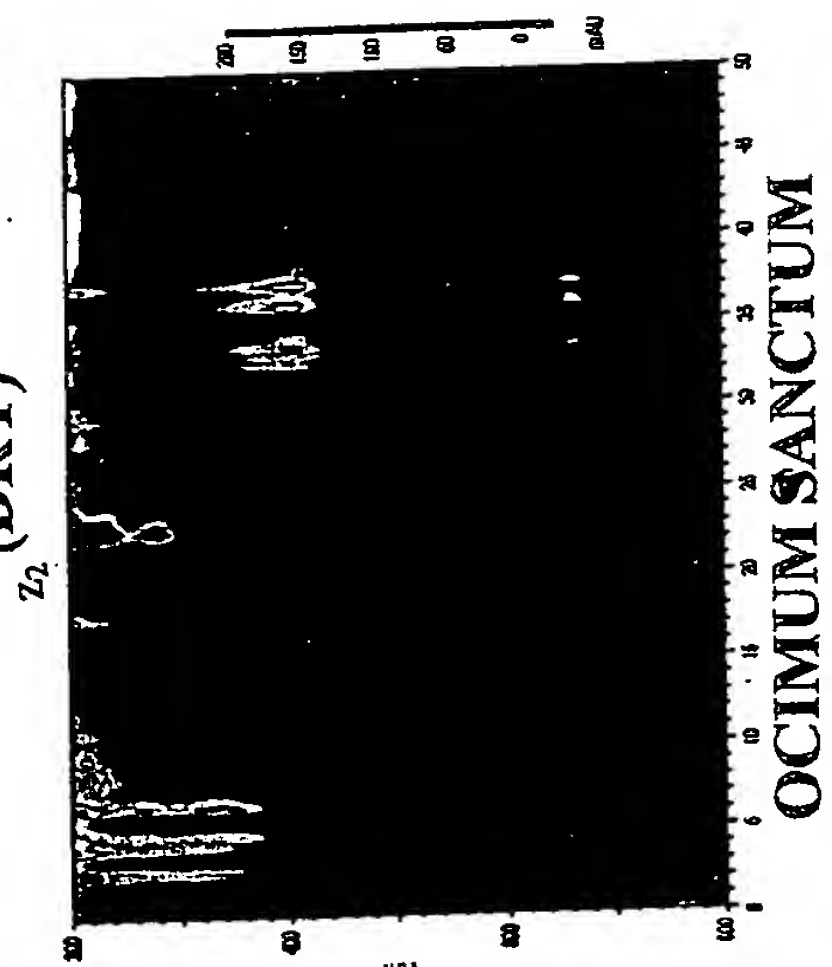
PHYLLANTHUS NIRURI

Figure 14

~~THE PRESENCE OF CONSTITUENTS IN ZONE-I INDICATES THE SAID EFFICACY OF THE MEDICINES~~



(DRY)



~~THE PRESENCE OF CONSTITUENTS IN ZONE 2 INDICATES THE SAID EFFICACY OF THE MEDICINES~~

Figure 15

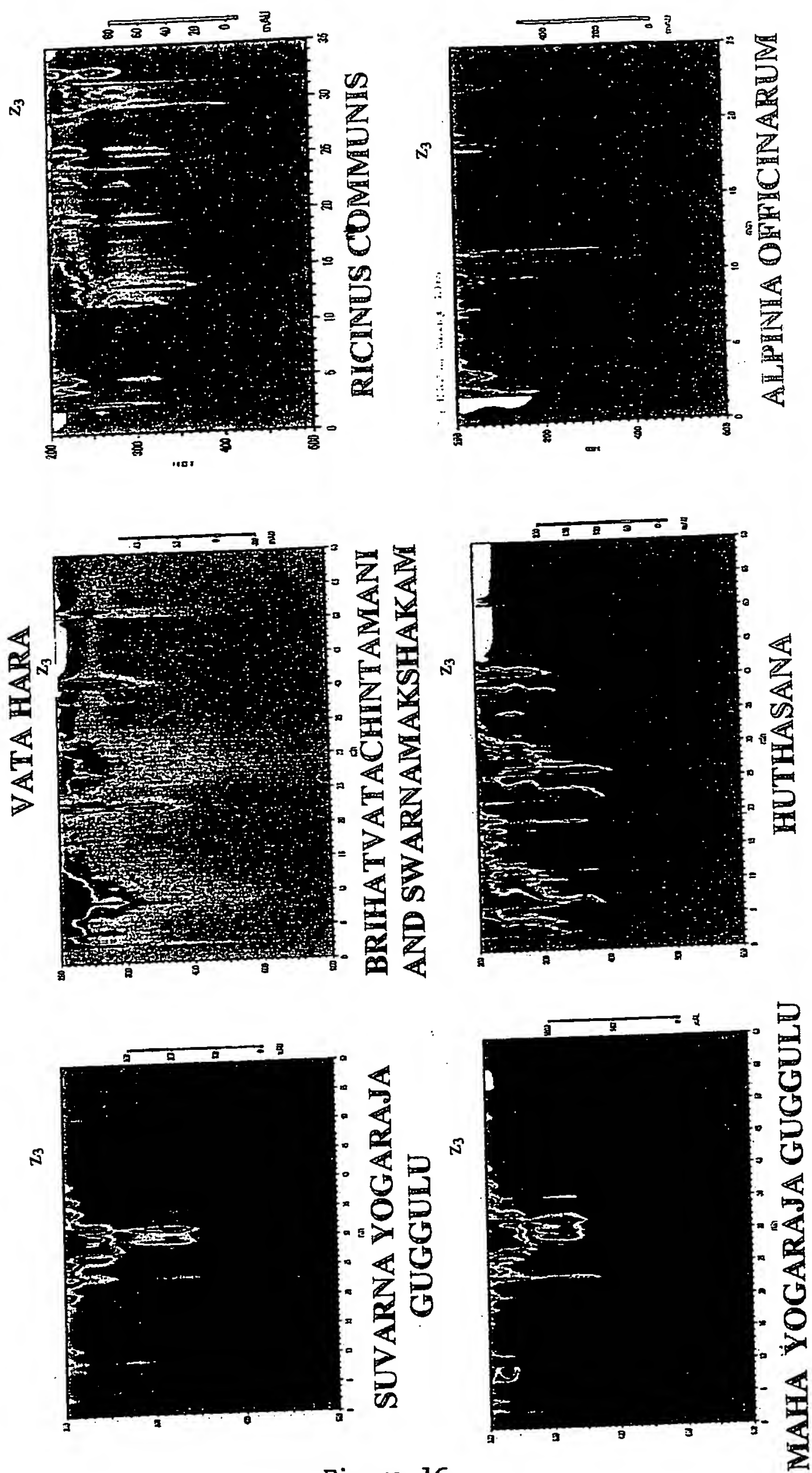


Figure 16

~~THE PRESENCE OF CONSTITUENTS ZONE-3 INDICATES THE SAID EFFICACY OF THE MEDICINES~~

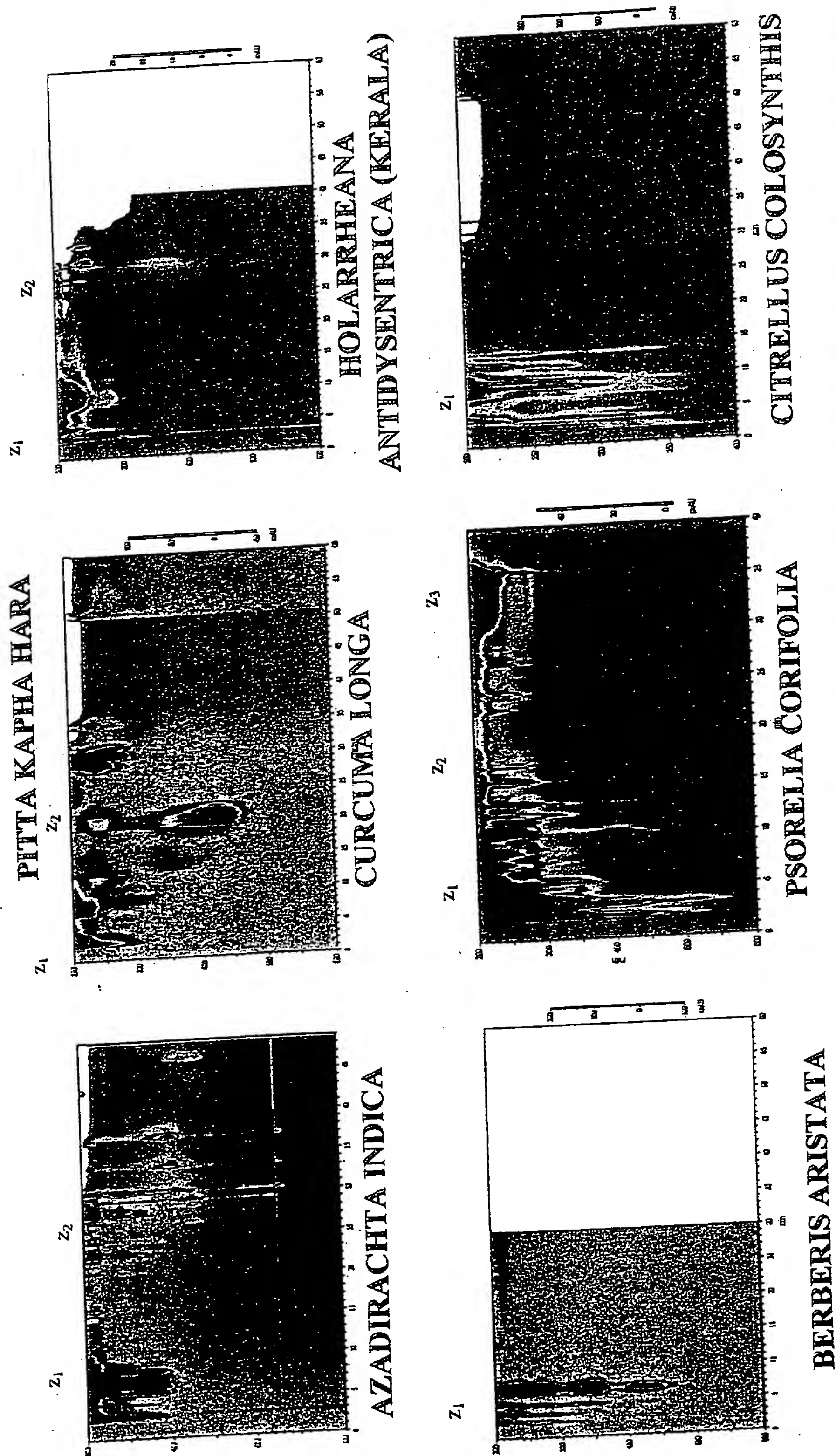
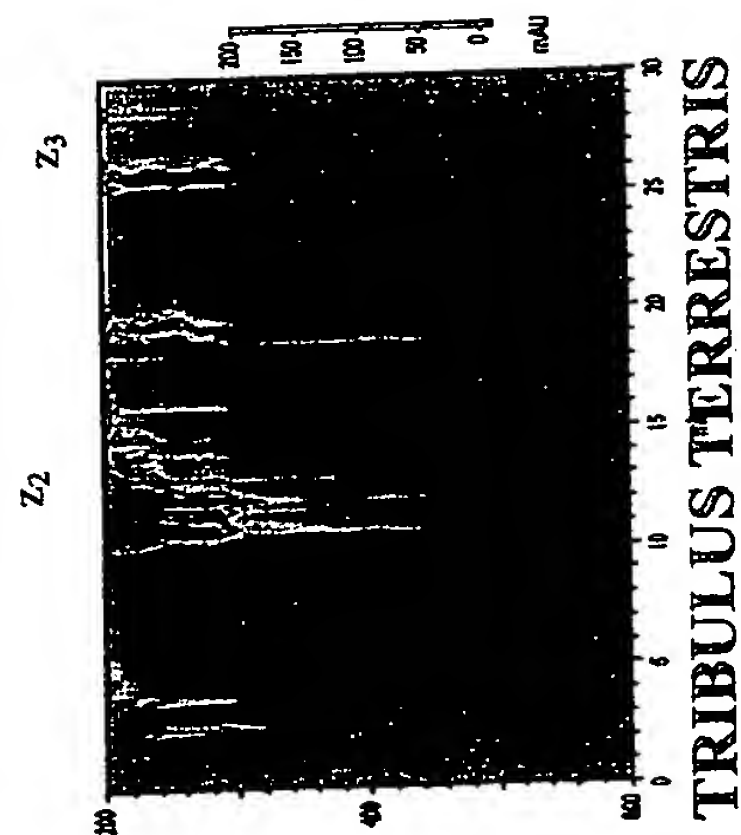


Figure 17

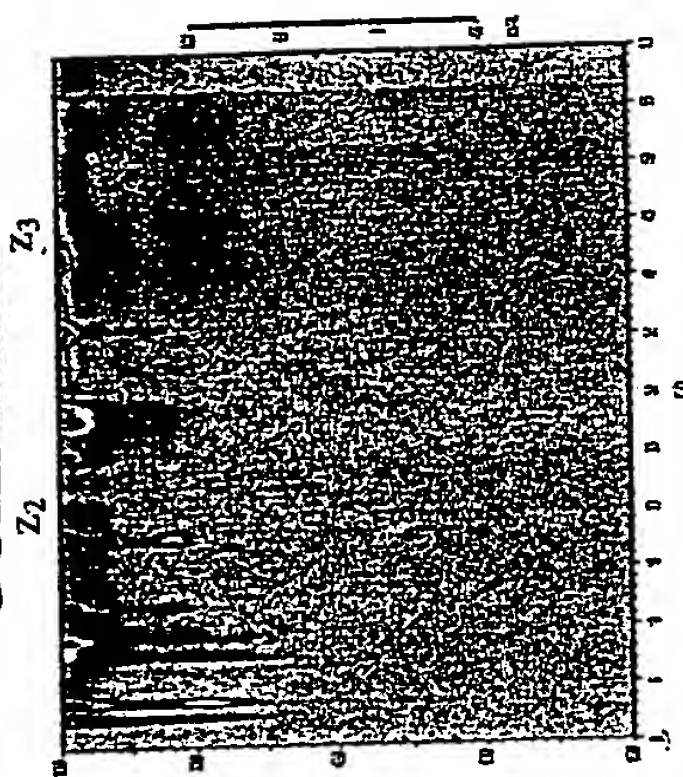
~~THE PRESENCE OF CONSTITUENTS IN ZONE-1 AND ZONE-2 INDICATES THE SAID EFFICACY OF THE MEDICINES~~

KAPHA VATA HARA

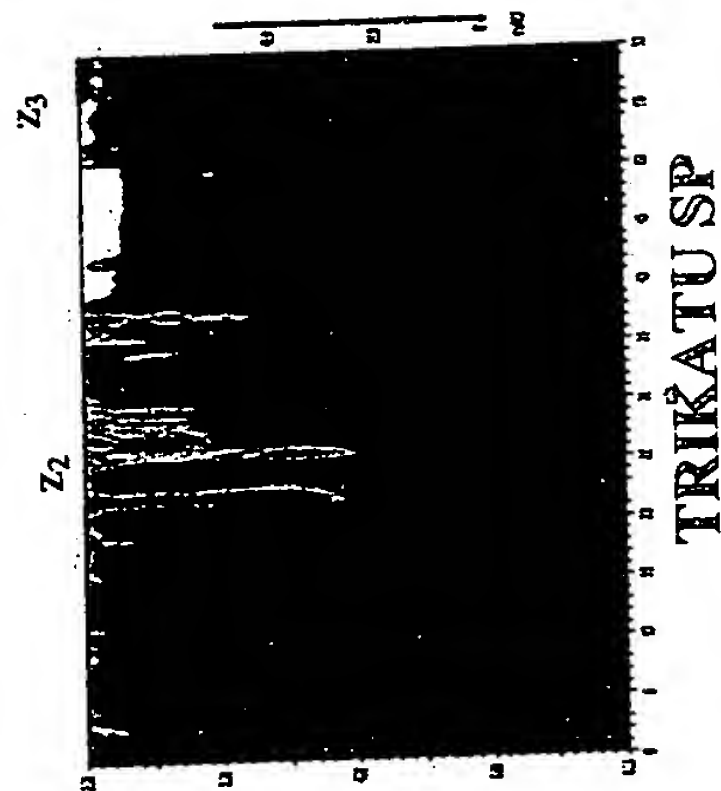


TRIBULUS TERRESTRIS

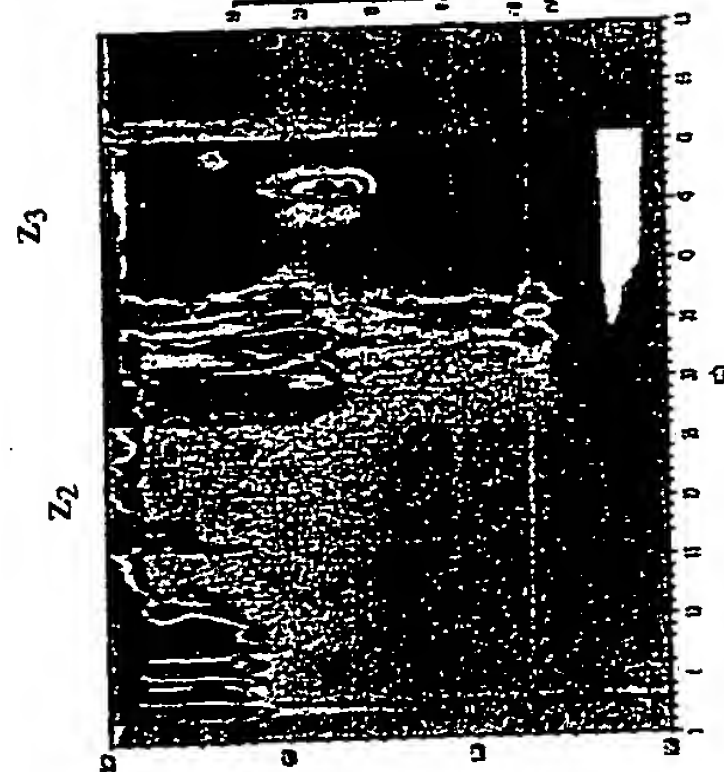
GOKSHURA



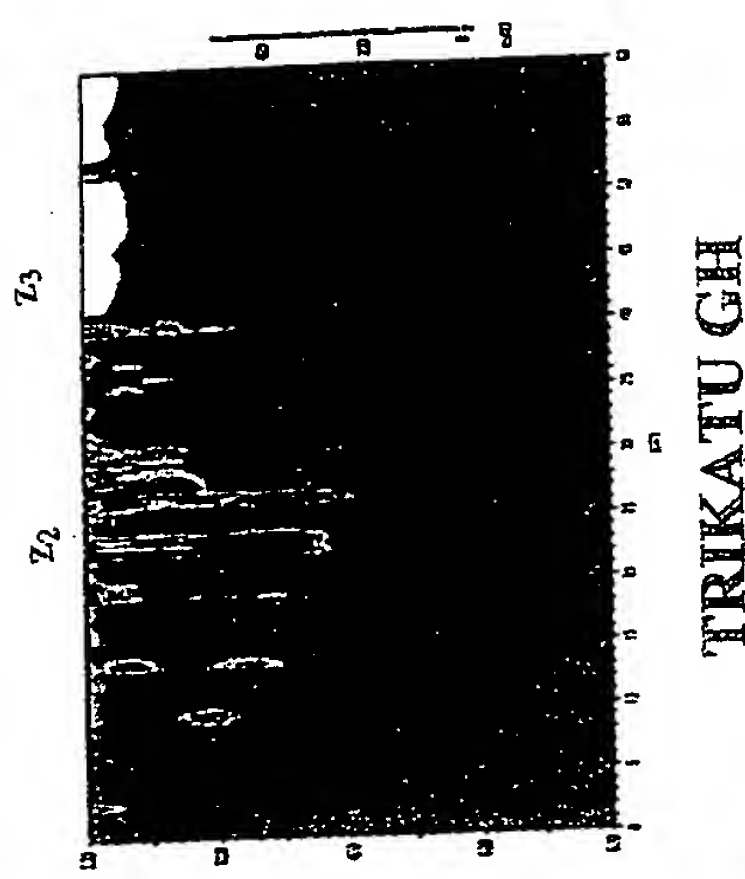
PIPER BEETLE LEAVES FROM COASTAL ANDHRA PRADESH



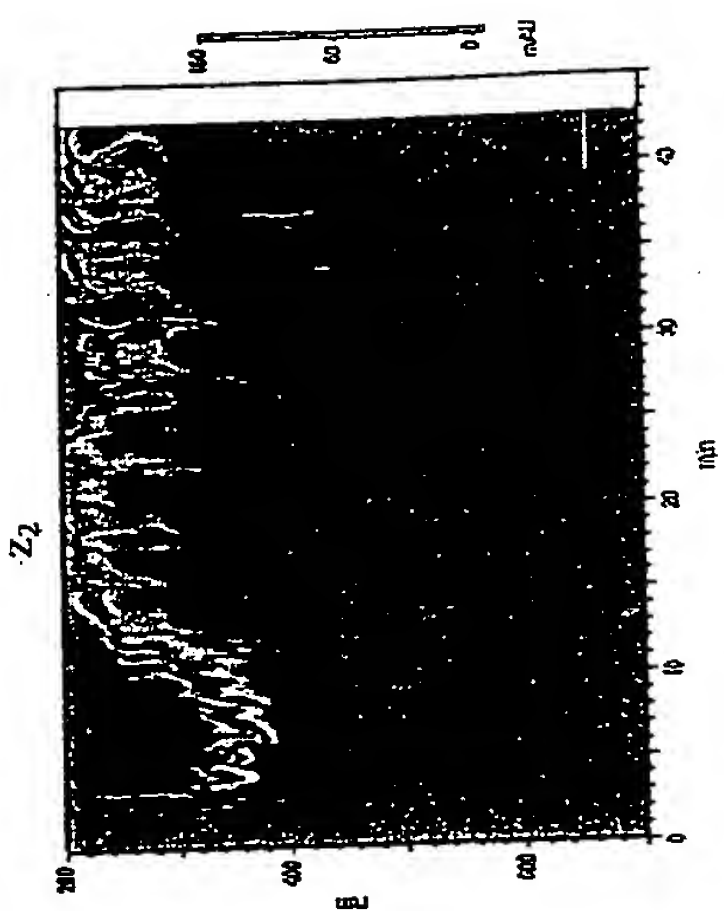
TRIKATU SP



PIPER BEETLE LEAVES FROM CULCUTTA



TRIKATU GH



MORINGA OLIFERA

THE PRESENCE OF CONSTITUENTS IN ZONE 2 AND ZONE 3 INDICATES THE SAID EFFICACY OF THE MEDICINES

Figure 18

PITTA VATA HARA

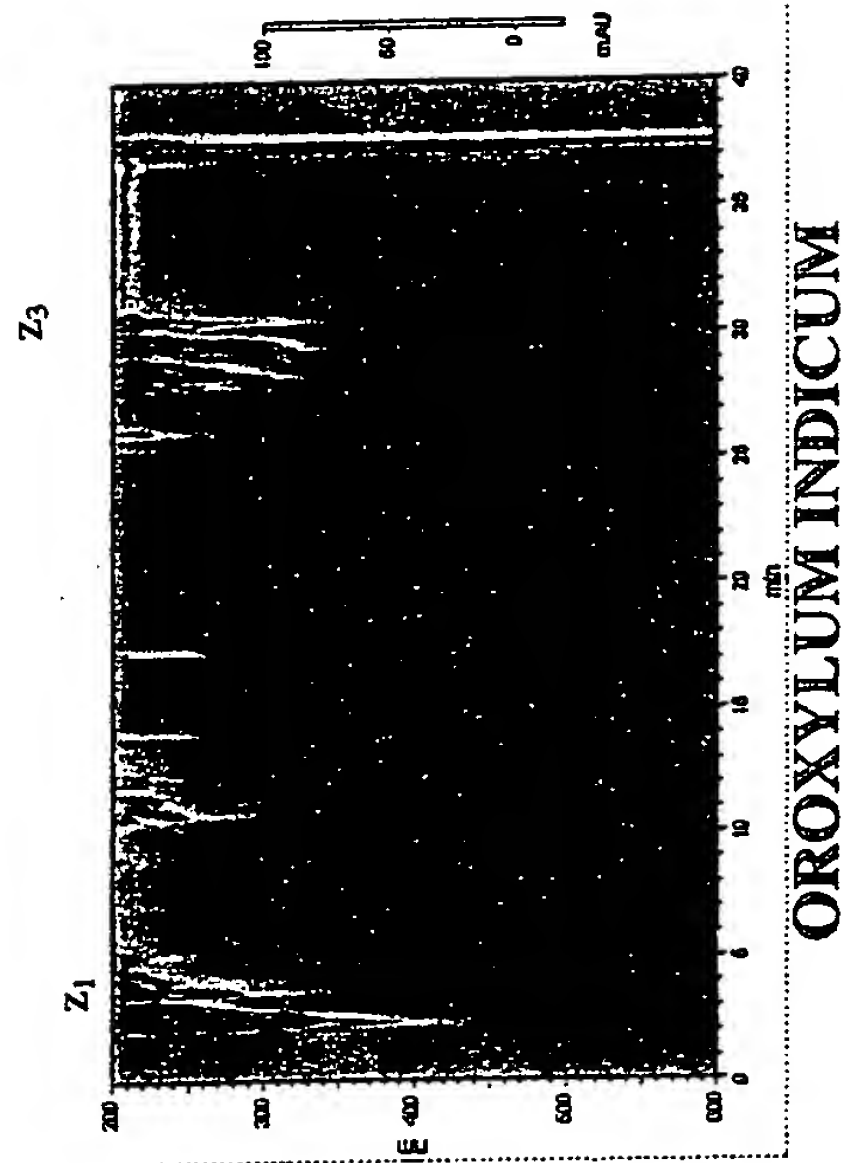
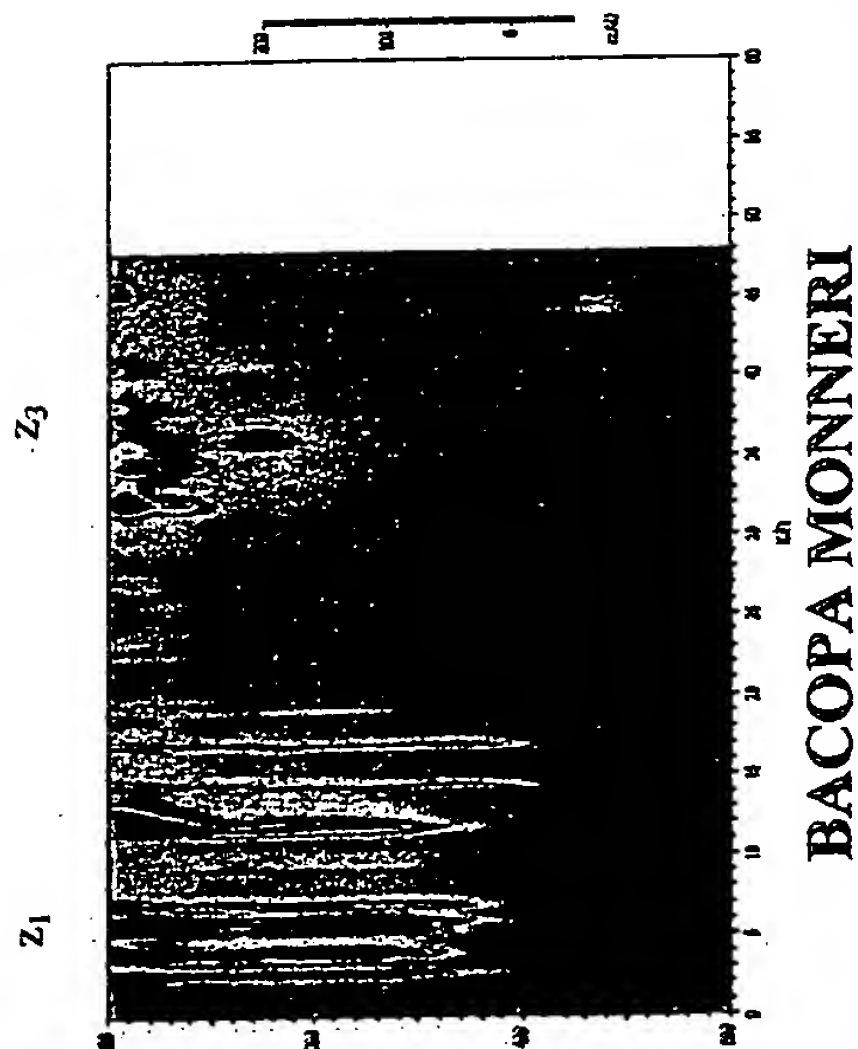
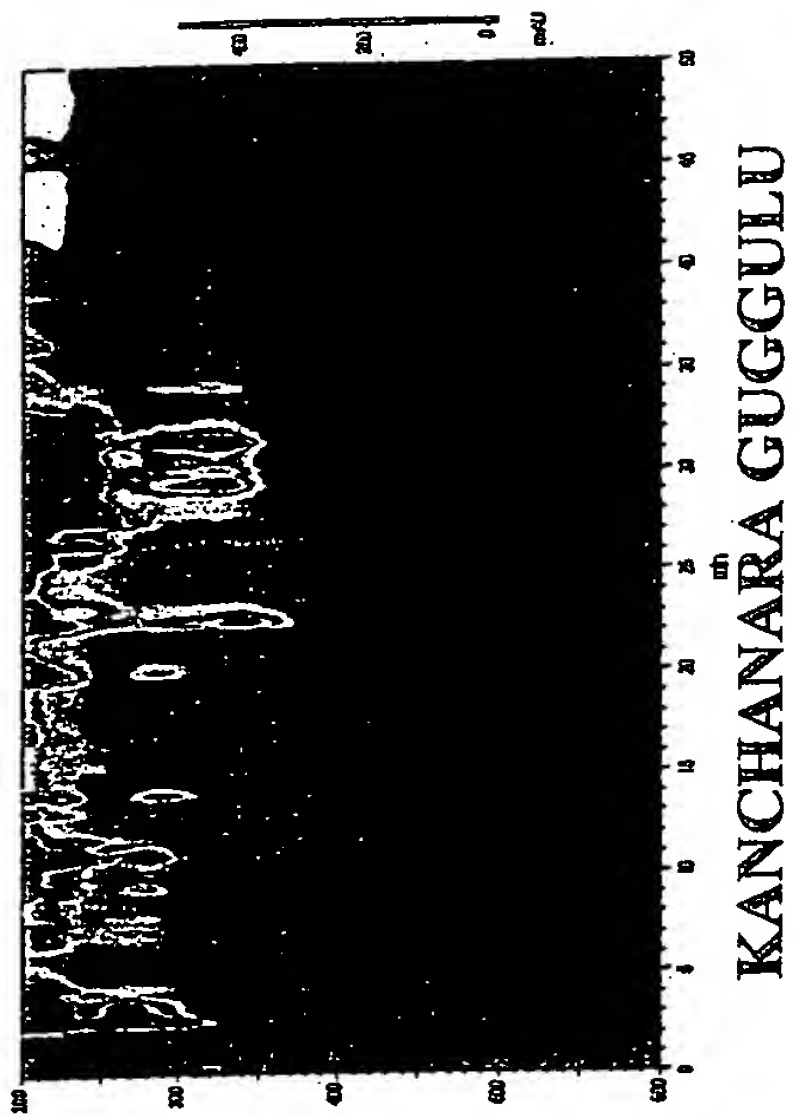
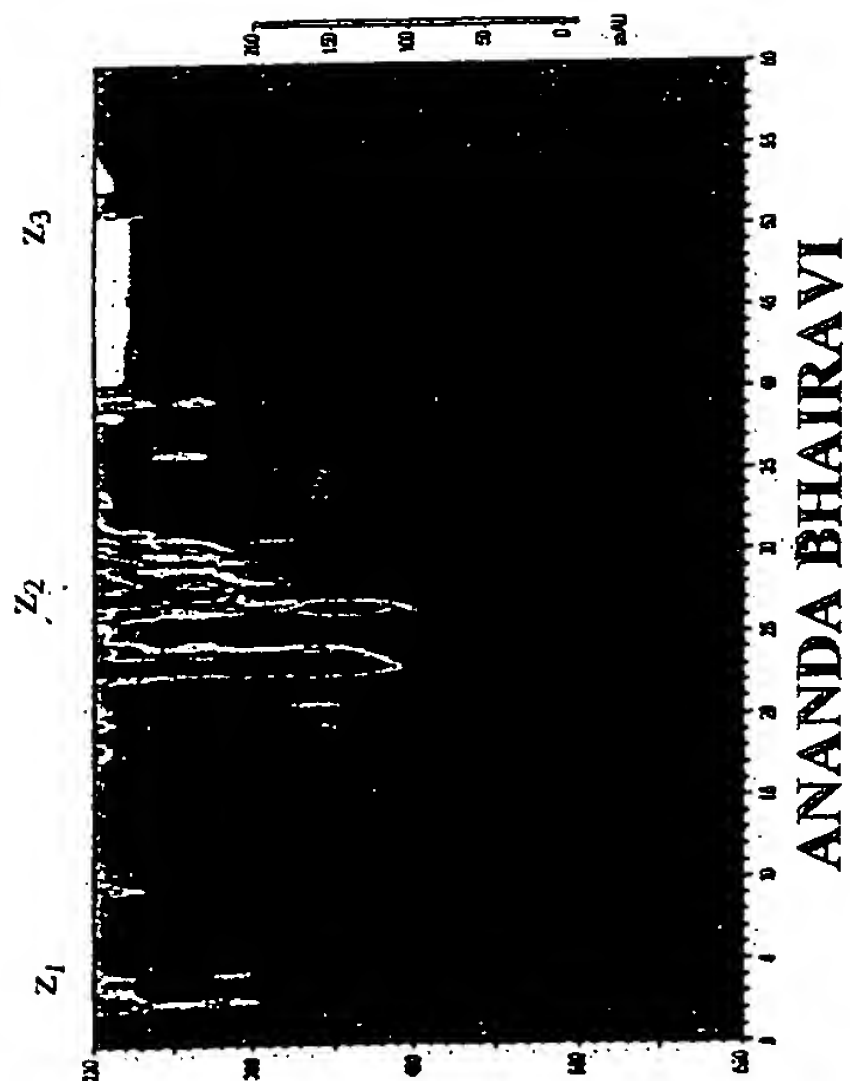
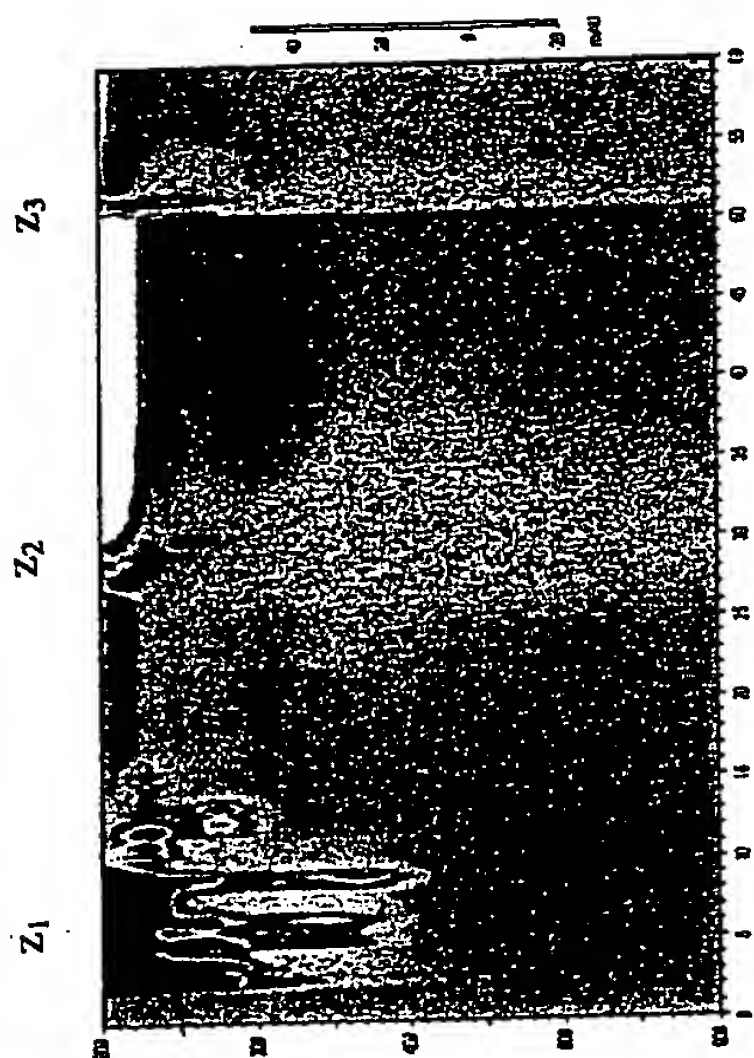


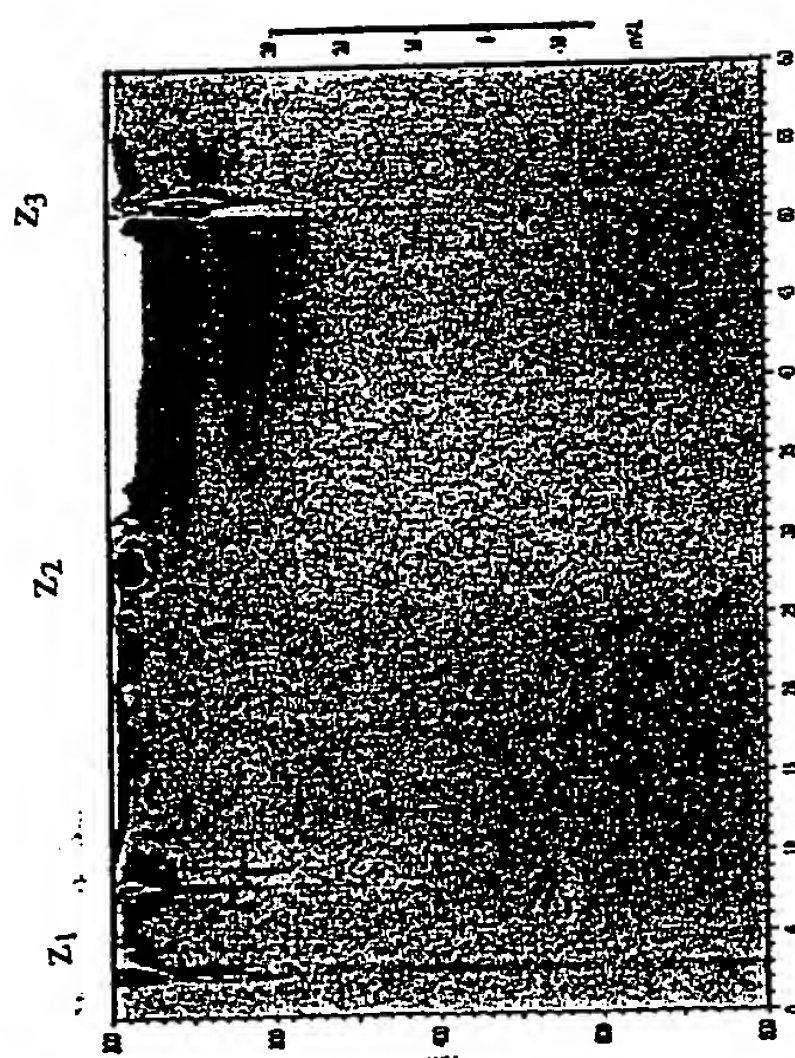
Figure 19

THE PRESENCE OF CONSTITUENTS IN ZONE-1 AND ZONE-3 INDICATES THE SAID EFFICACY OF THE MEDICINES

TRI DOSHA HARA



ALLIUM CEPA (BIG)



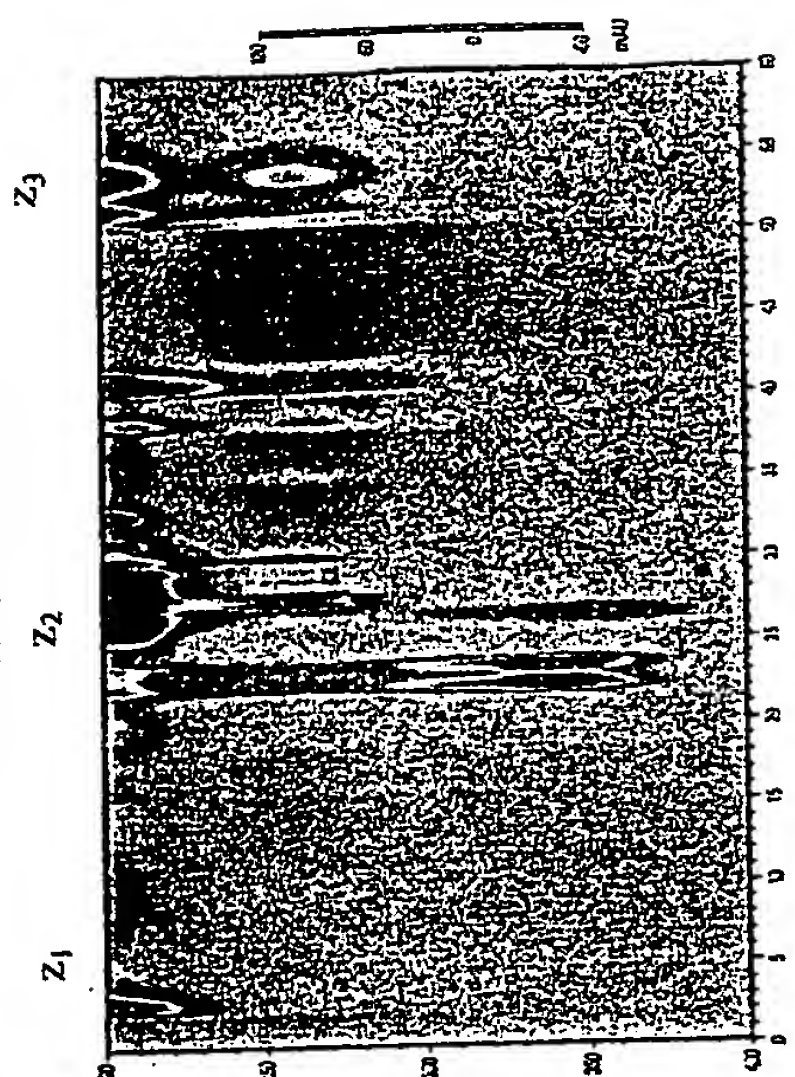
EMBLICA OFFICINALIS

THE PRESENCE OF CONSTITUENTS IN ALL THREE ZONES INDICATES THE SAID EFFICACY OF THE MEDICINES

WITHANIA PUBISCENCE



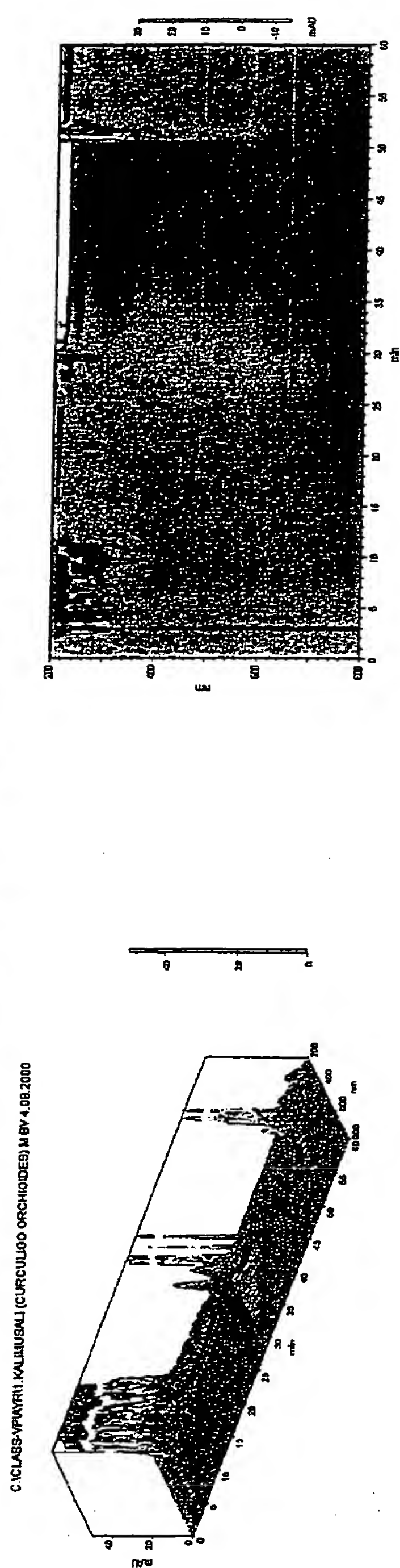
RED SEEDS



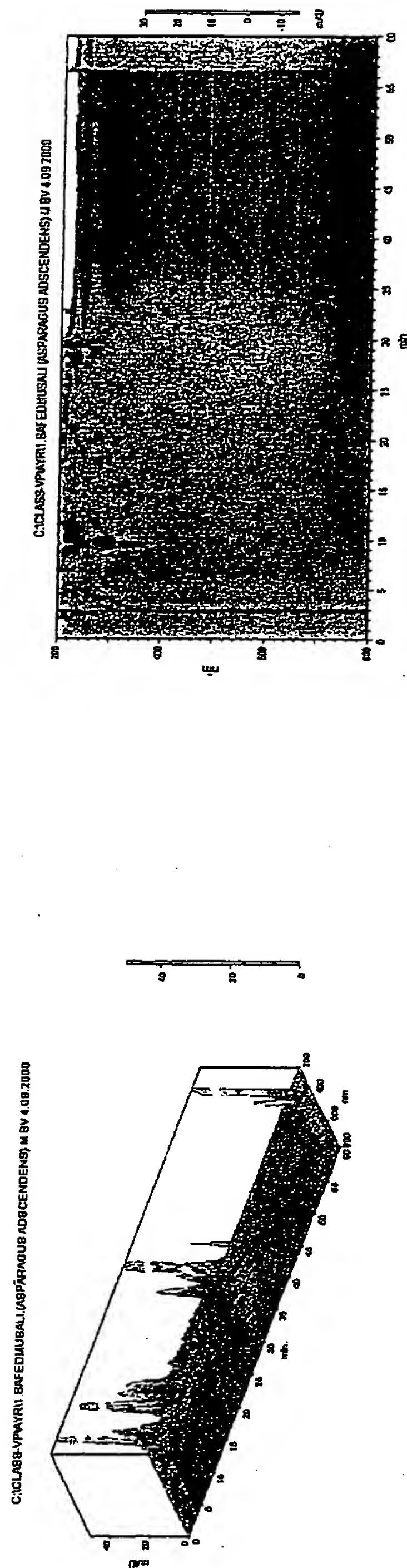
MAHALAKSHMI VILAS RAS

Figure 20

Figure: MUSALI--A TRIDOSHIA HARA-MEDICINE



FINGER PRINTS OF CURCULIGO ORCHOIDIS (KALIMUSALI)



FINGER PRINT OF ASPARAGUS ADESCENDENS (SAFED MUSALI)

Figure 21

~~CITRULLUS COLOSANTHUS~~

~~(HOMEO-MEDICINE)~~

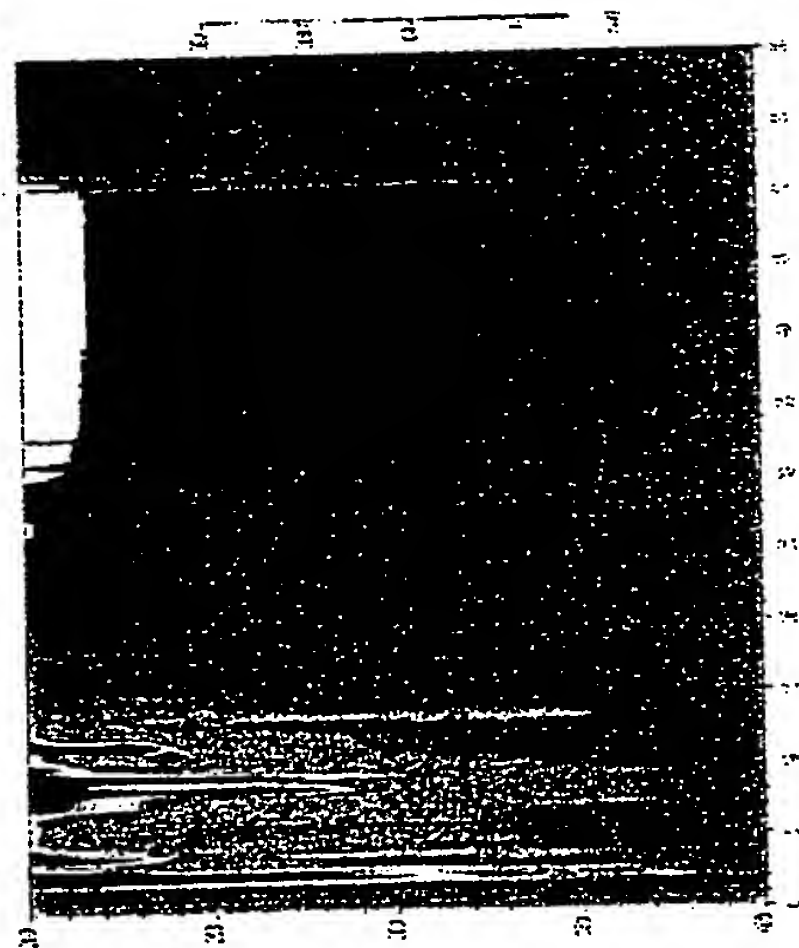
Light in bitterness absent

Very bitter peak of difference



~~CITRULLUS COLOSANTHUS~~

POOR BY EFFICACY



~~CITRULLUS COLOSANTHUS~~

GOOD BY EFFICACY

~~THE LACK OF SOME CONSTITUENTS IN THE FINGER-PRINT SHOWS THE USE OF THIS METHOD FOR THE STANDARDIZATION OF EXTRACTS OF HOMEO-MOTHER TINCTURES FROM PLANTS~~

~~THIS supports the claim of taste identification used for therapeutic standardization.~~

Figure 22

~~INFLUENCE OF ECOLOGICAL FACTORS~~

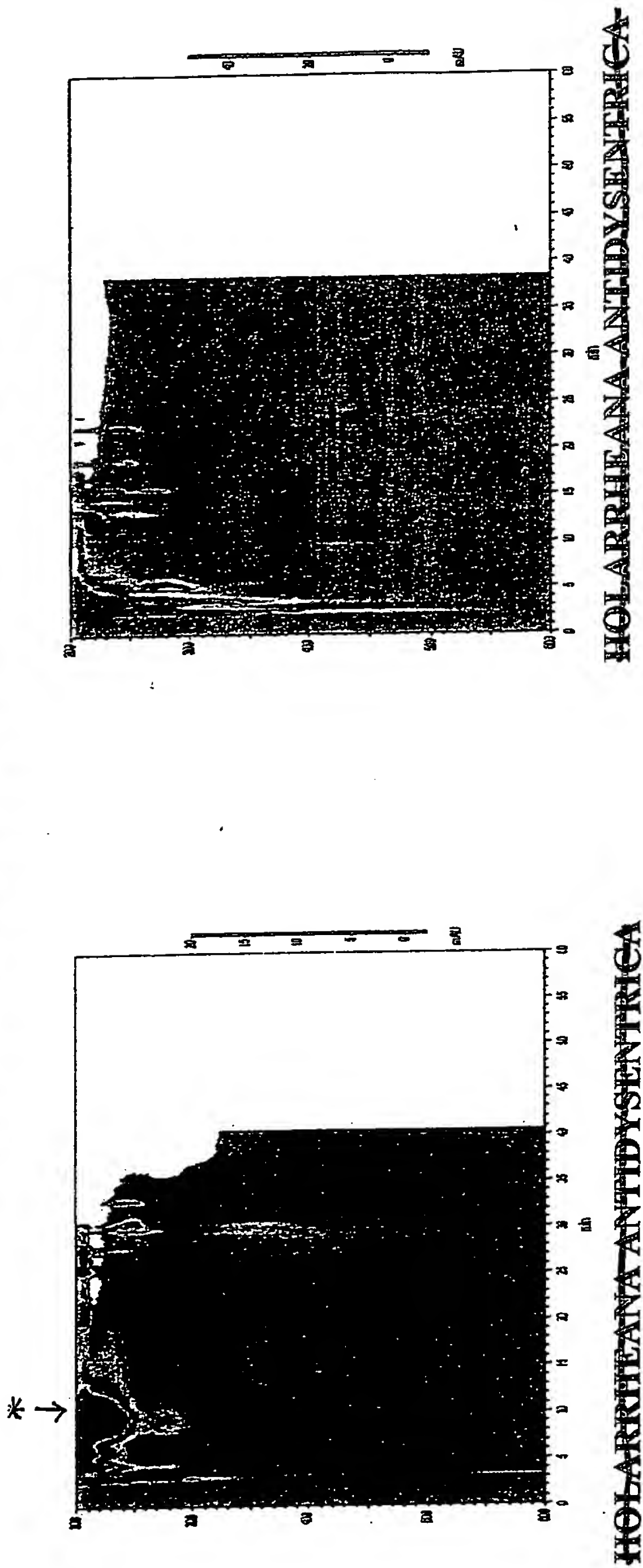


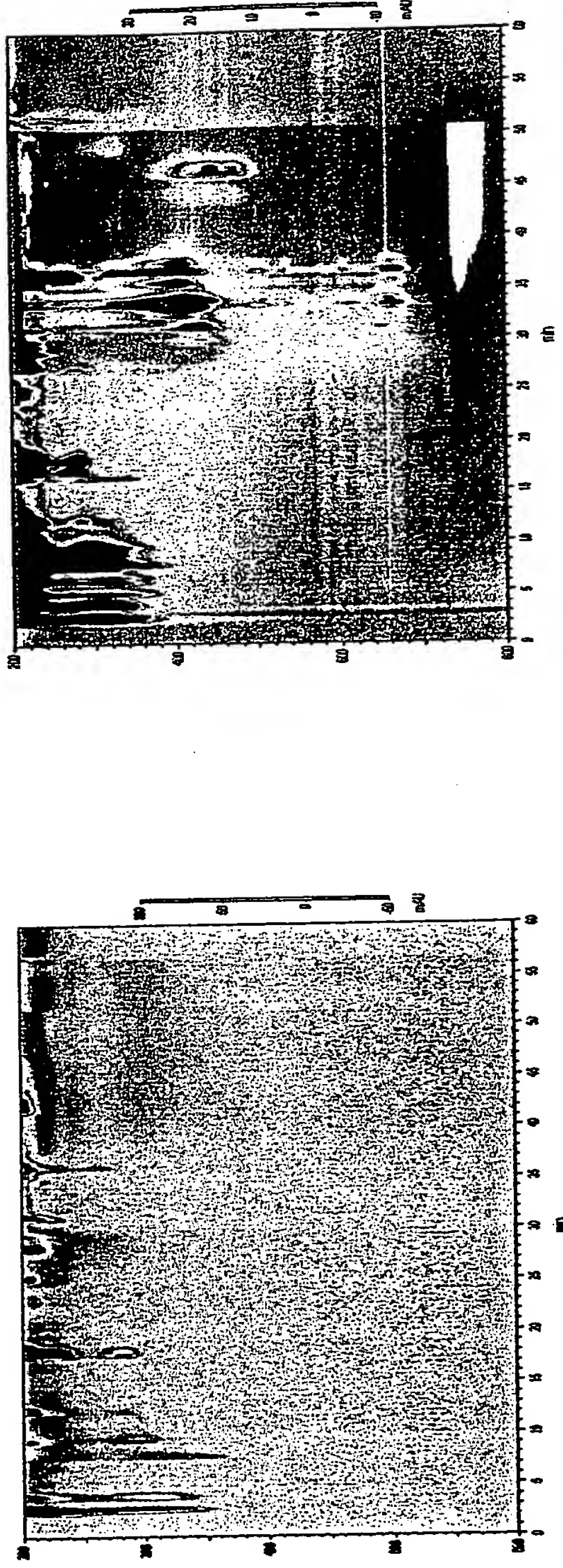
Figure 23

~~THE FINGER-PRINTS SHOWS THE INFLUENCE OF ECOLOGICAL FACTORS ON THE~~
~~CHEMICAL CONSTITUENTS OF THE PLANT MATERIAL OF~~
~~DIFFERENT TROPICAL ZONES OF THE COUNTRY.~~

* ~~This constituent is basic in nature because the basic or alkaline amines elutes stretched~~
~~or elongated. Acid compounds elute fast like a sharp peak.~~

Figure 24

~~PIPER-BEETLE-EXAMPLE~~



BEETLE LEAVES FROM COASTAL

ANDHRA PRADESH

BEETLE LEAVES FROM

CALCUTTA

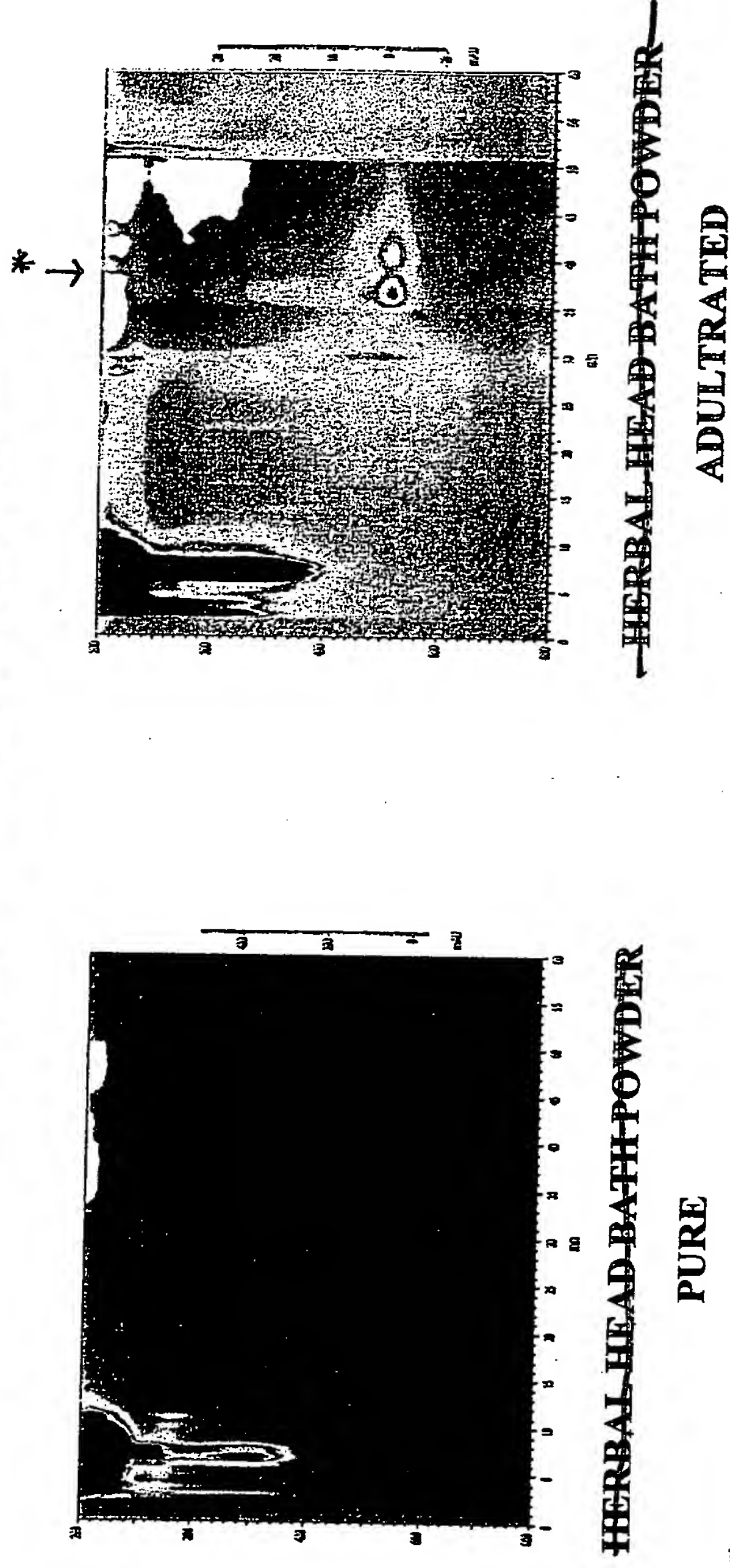
Aurones and Chareones (flavonoids) are antioxidants. A combinatorial library of _____ can be seen.

~~THE FLAVONOIDS PRESENT IN THE TIME RANGE OF 30-40 MIN SHOWS THE INFLUENCE OF GENOTYPIC, PHENOTYPIC VARIATIONS AND ECOLOGICAL FACTORS ON THE CHEMICAL CONSTITUENTS OF THE PLANT MATERIAL OF DIFFERENT~~

~~TROPICAL ZONES OF THE COUNTRY~~

Figure 26

HERBAL HEAD BATH POWDERS



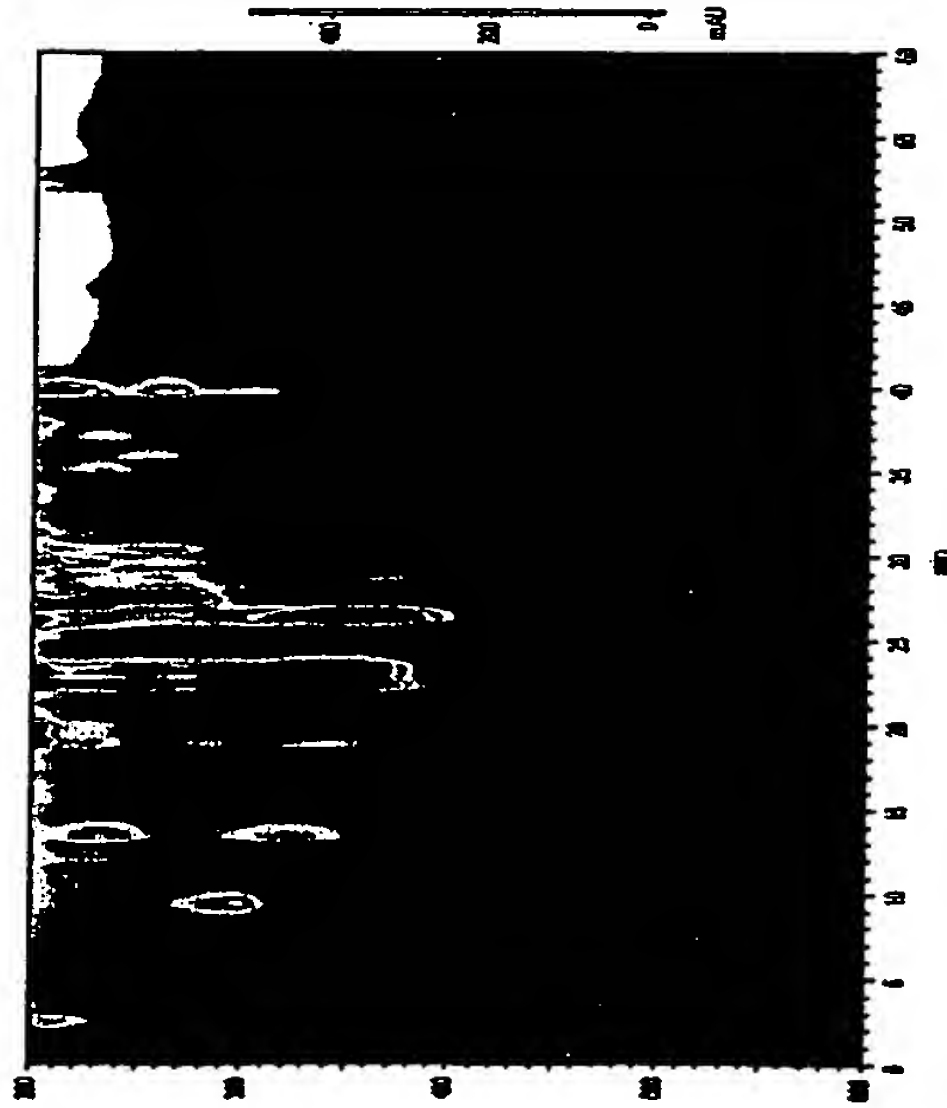
THE ABOVE FINGER PRINTS SHOW THE ADULTERATION OF DETERGENTS IN THE SAID HERBAL COSMETIC PRODUCT. THUS FINGER PRINTING HELPS TO MONITOR THE ADULTERATIONS IN VARIOUS COMMERCIAL HERBAL PRODUCTS

* -> ~~Constituents at 35-40 minutes are highly basic and soapy in nature. The pure detergent sample are eluting at the same time.~~

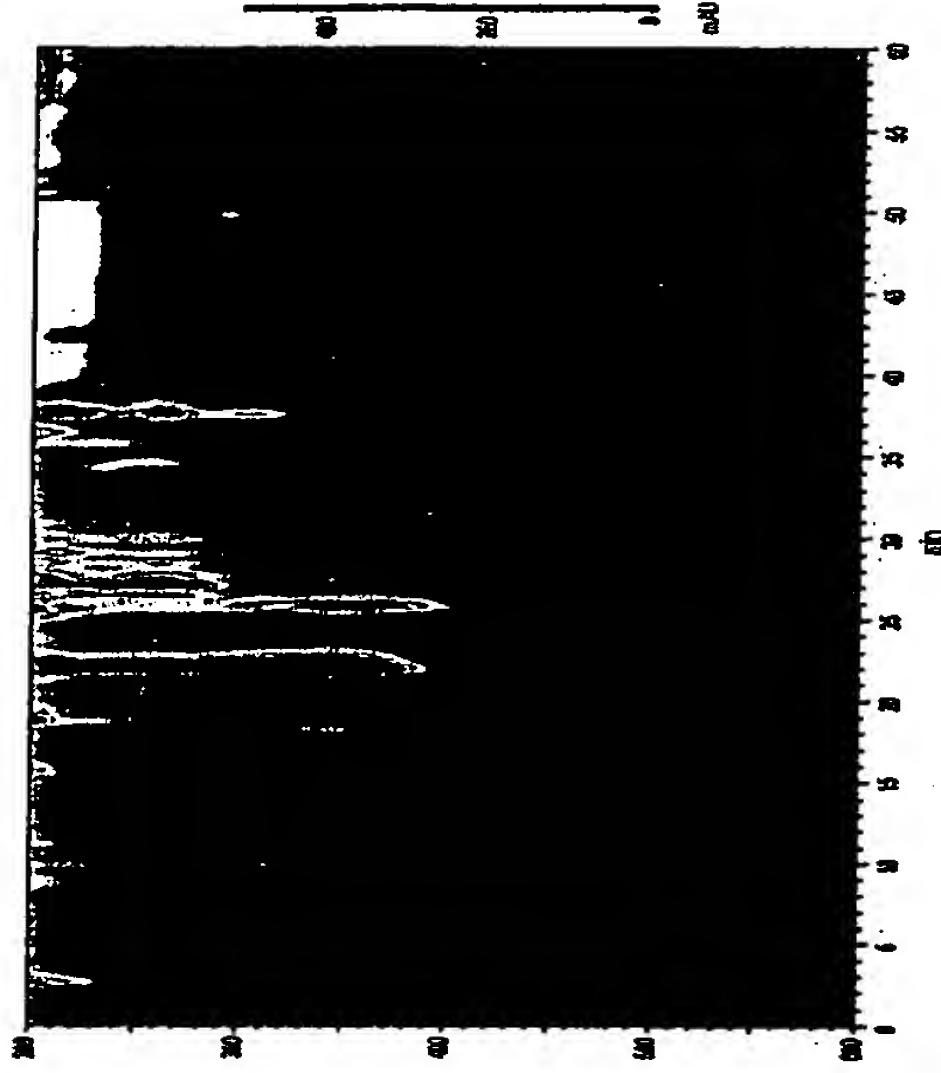
Figure 27

~~HERBAL FORMULATIONS OF~~

~~DIFFERENT BRANDS~~



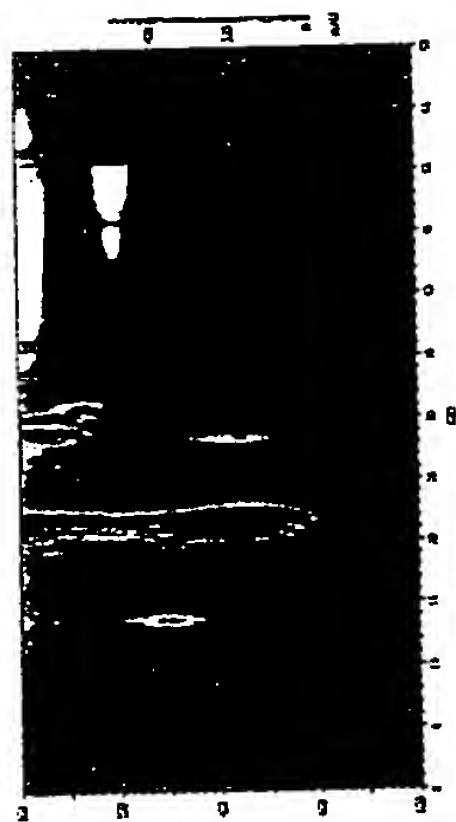
TRIKATU - BRAND 1



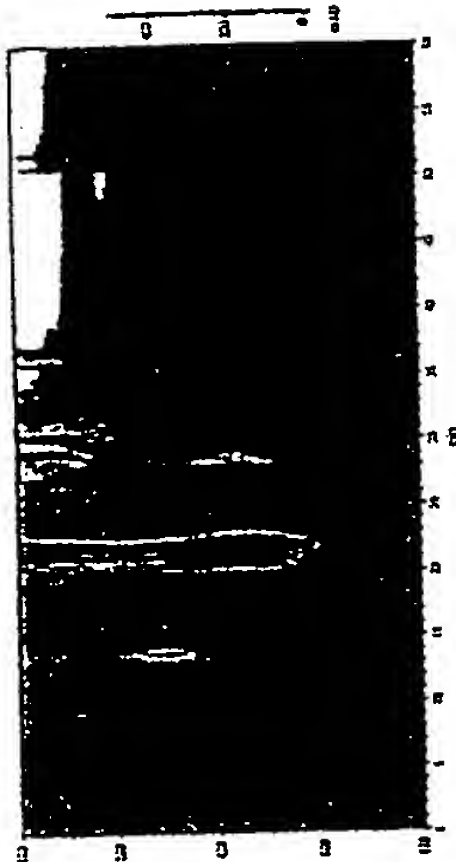
TRIKATU - BRAND 2

~~THE ABOVE EXAMPLE OF TRIKATU SHOWS DIFFERENCE IN THE ASSAY AND VARIATIONS
IN THE CHEMICAL CONSTITUENTS. THE REASON MAY BE DUE TO THE VARIATIONS IN
THE SINGLE MEDICINES USED TO PREPARE THE FORMULATIONS.~~

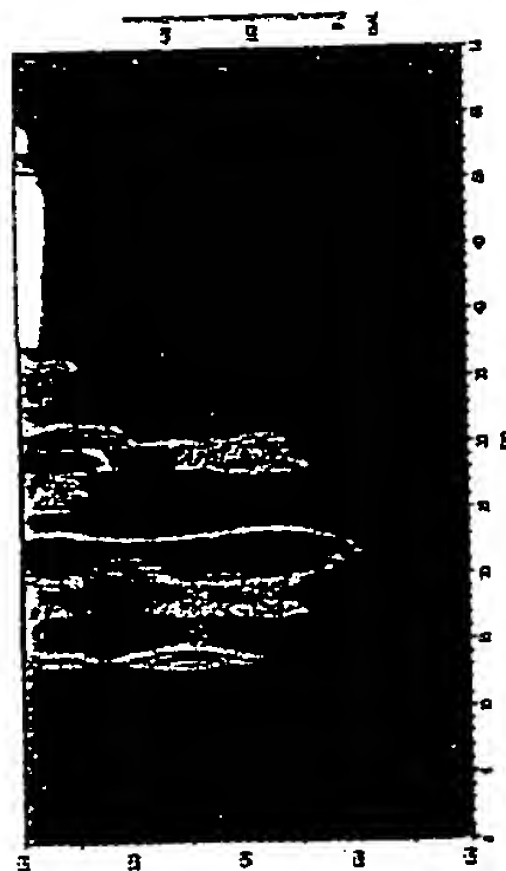
~~SUPPLEMENTARY EXAMPLE~~



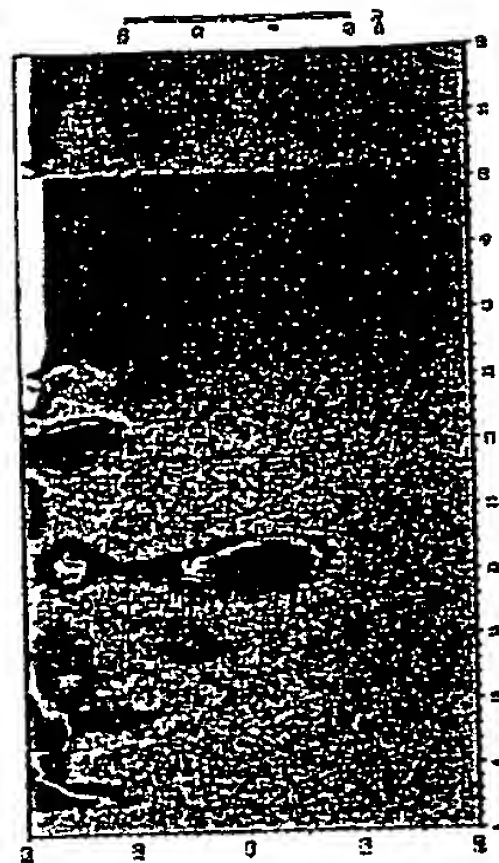
CURCUMA LONGA BRAND - 1



CURCUMA LONGA BRAND - 2



CURCUMA LONGA BRAND - 3



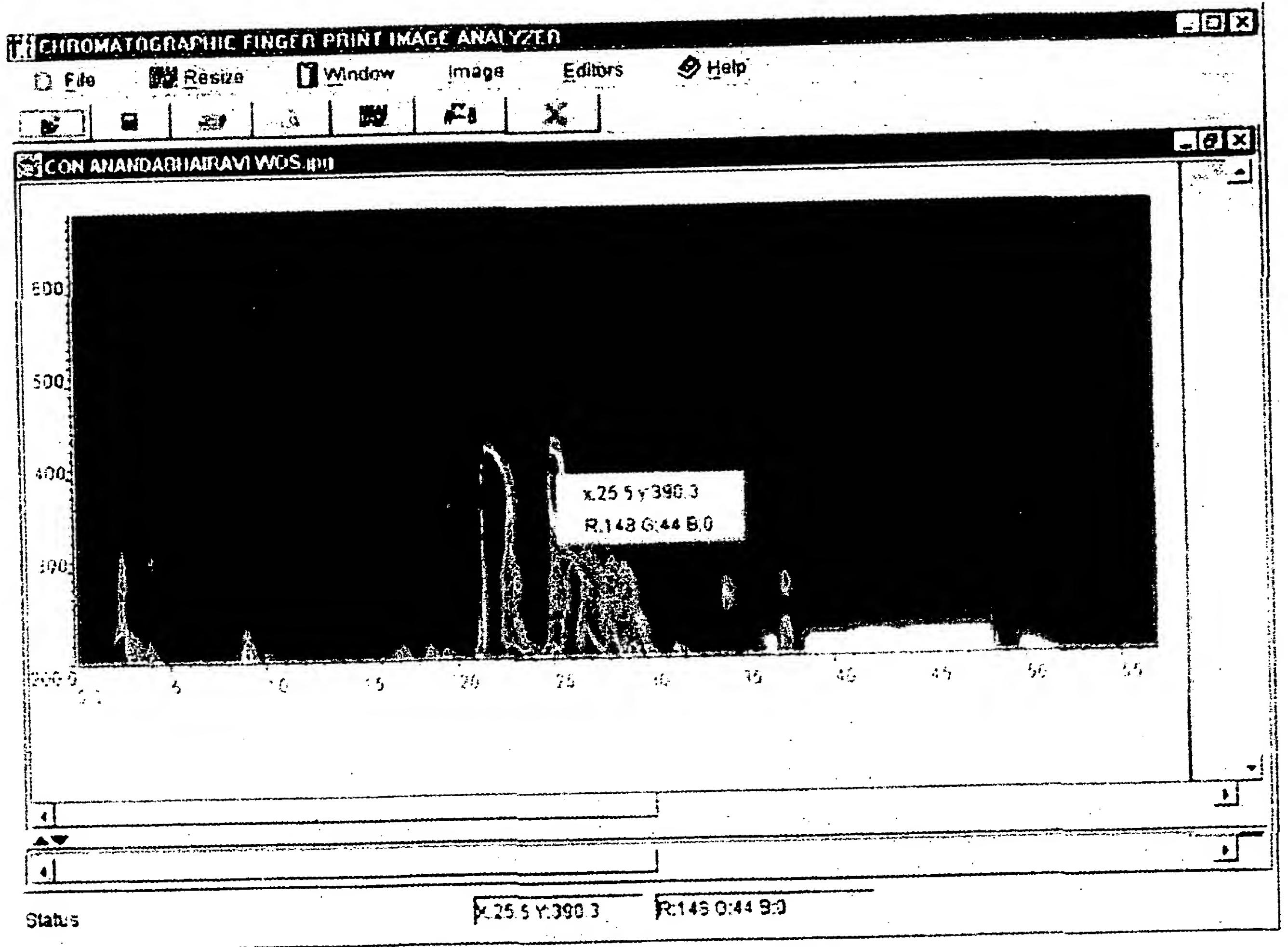
CURCUMA LONGA
(NATURAL RHIZOME)

Figure 28

~~THE FINGERPRINTS OF THE SAME HERBAL PRODUCT IN DIFFERENT FORMS HELPS IN THE QUALITY CONTROL OF THE NATURAL SUBSTANCES. THE COMMON PEAKS AT 20 MIN IN NATURAL AND COMMERCIAL PRODUCTS INDICATES THE PRESENCE OF THE YELLOW COLORED MOLECULES IN ALL~~

Figure 93

~~IMAGES WITH BAR CODE VALUES GIVEN BY THE SOFTWARE TO FEED FOR A BAR CODING SOFTWARE~~

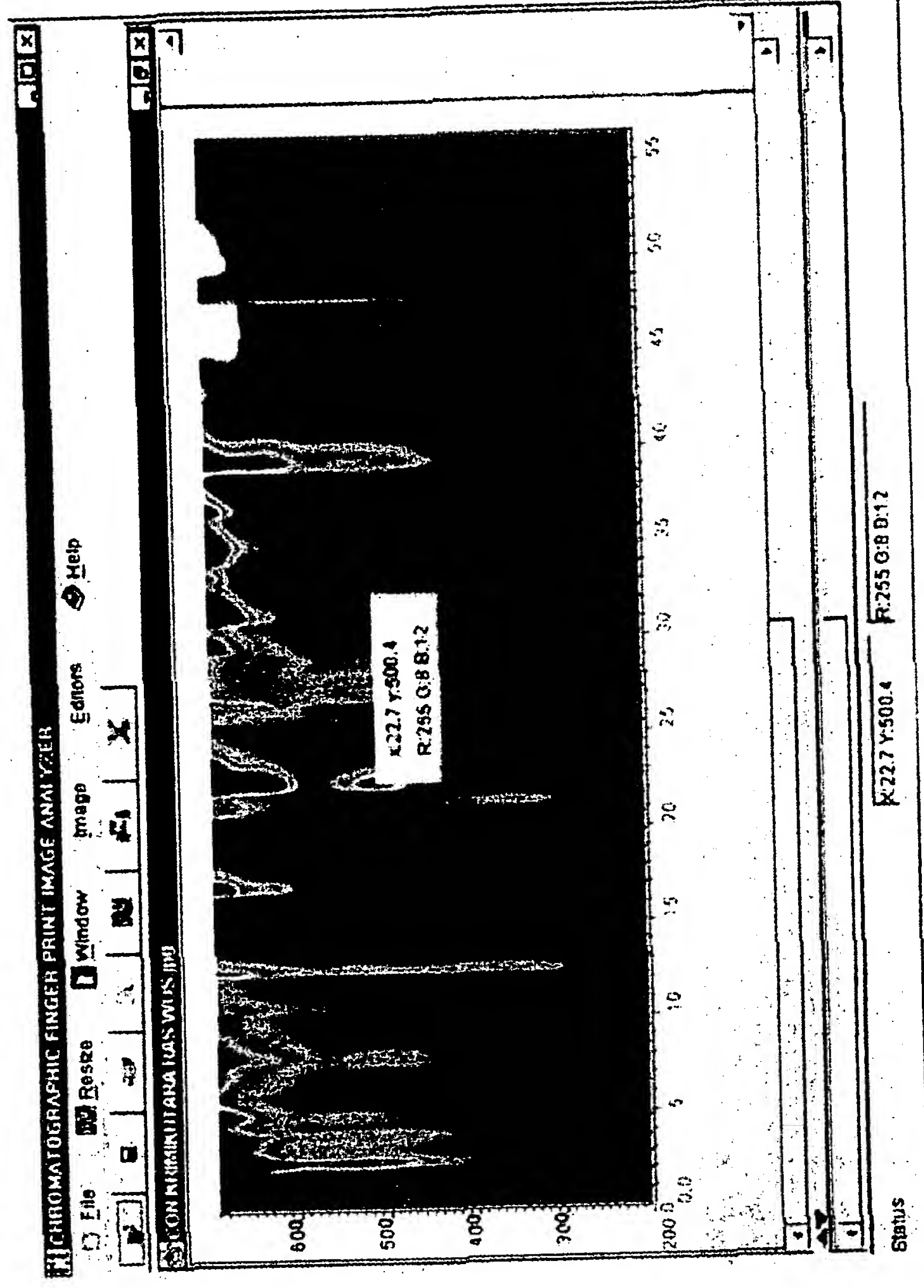


~~Anandabhairavi Ras~~

~~Y right clicking the image software is able to show the coordinates on the box near the peak. The same is shown in down tool bar. These will be exported to barcoding software which generates a barcode for the said values.~~

Figure 94

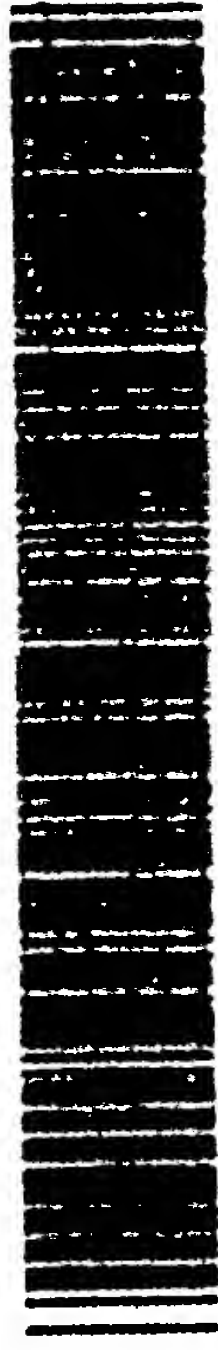
~~IMAGES WITH BAR CODE VALUES GIVEN BY THE
SOFTWARE TO FEED FOR A BAR CODING SOFTWARE~~



~~Krimikutara-Ras~~

~~Same mechanism as explained in Figure 93~~

Figure 95



X25.5Y390.EPI48G44B0

~~ANANDABHAKTA VI KAS~~

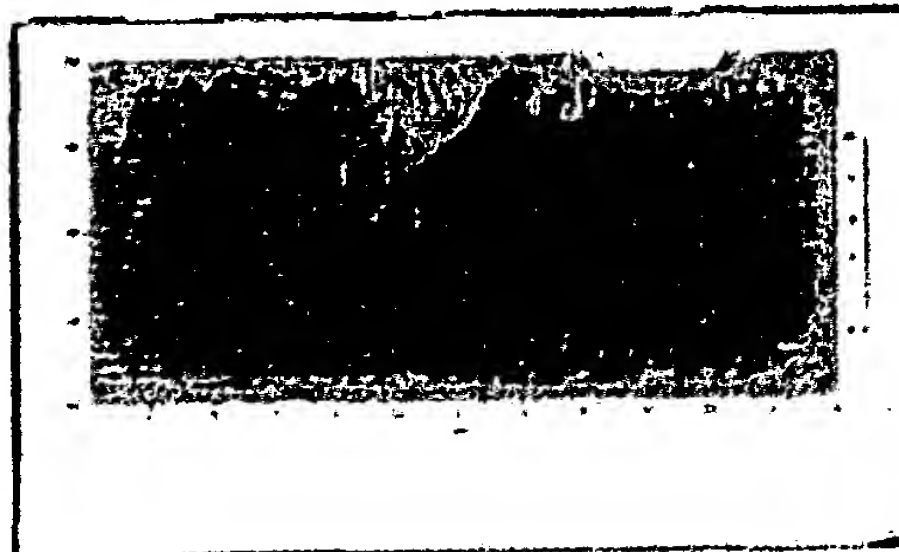
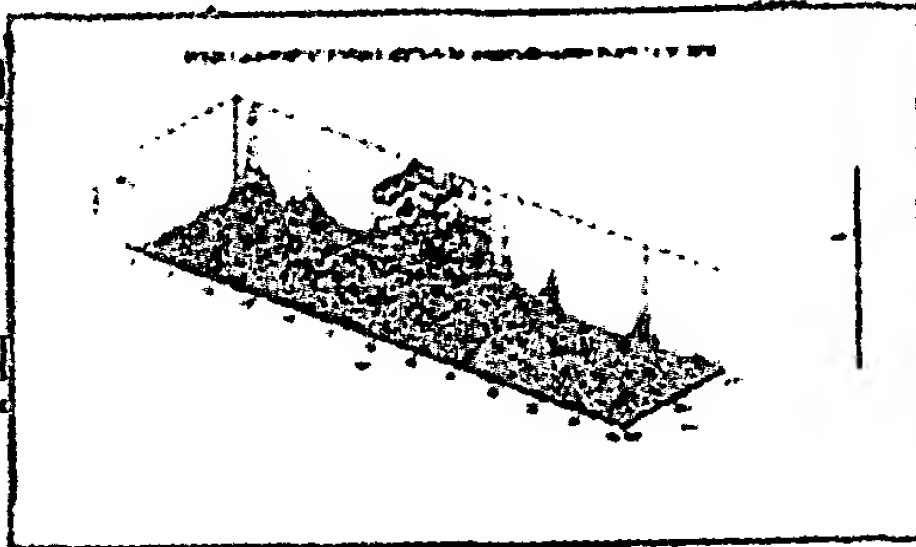
~~Barcode generated for specified coordinates~~

Figure 97

Name of the product: Anandabhairavi Ras

Owner: Industry

Finger prints:



Mfg. Date:

Date of expiry:

Individual constituents:

Batch number:

Lot number:

M.R.P:

Dosage:

Precautions:

For Children:

For pregnant woman:

Barcode:



X25.5Y390.3R148G44B0

ANANDABHAIRAVI

Display Window For Anandabhairavi Ras

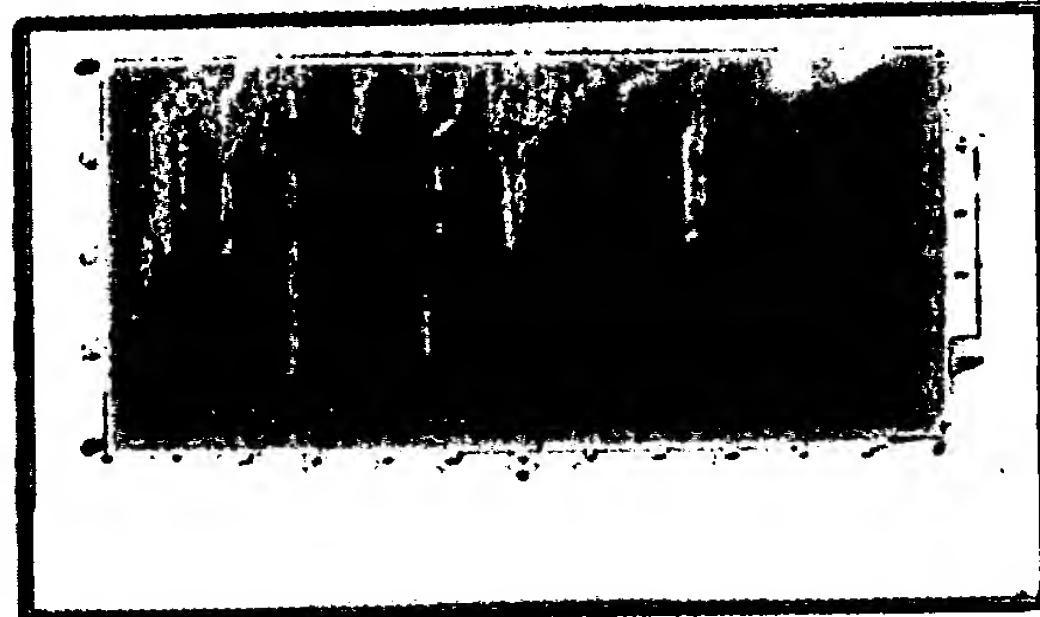
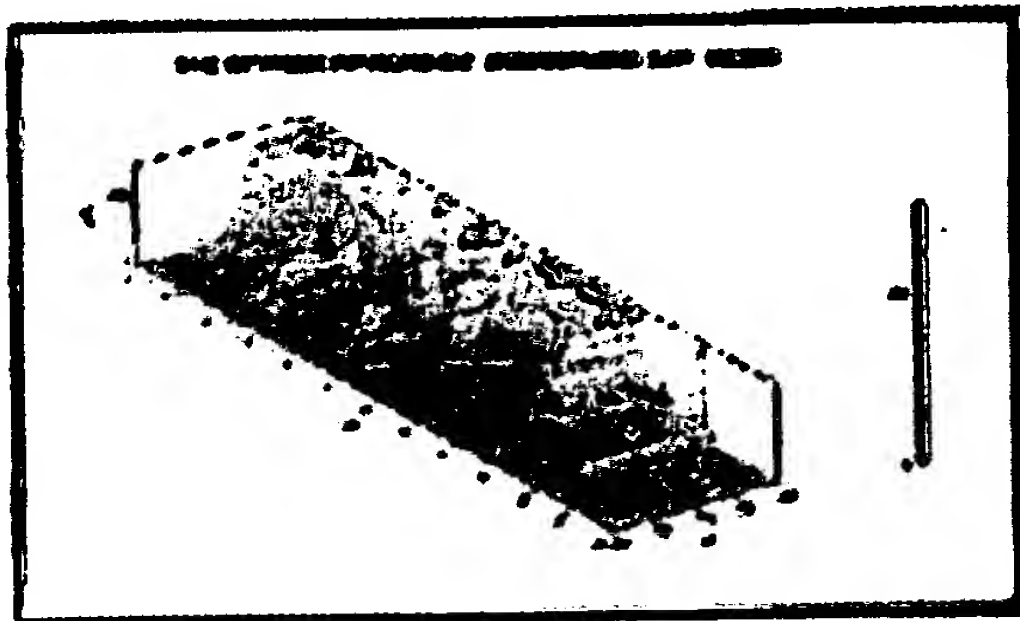
~~Display windows for all the medicines will be done. This becomes a database for ERP CRM application.~~

Figure 98

Name of the product: Krimikutara Ras

Owner: Industry

Finger prints:



Mfg. Date:

Date of expiry:

Individual constituents:

Batch number:

Lot number:

M.R.P.:

Dosage:

Precautions:

For Children:

For pregnant woman:

Barcode:

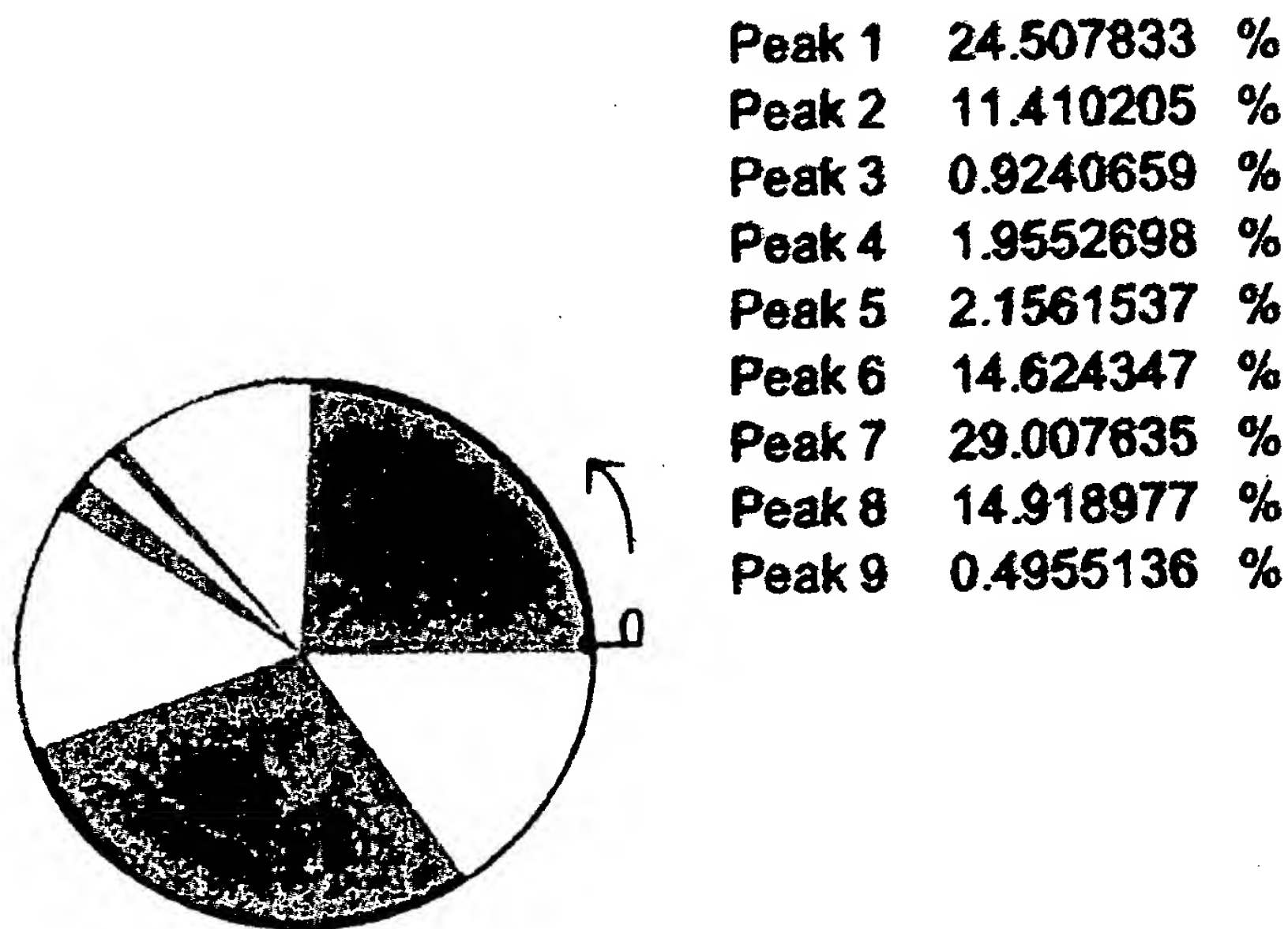


122.7Y500.402550812

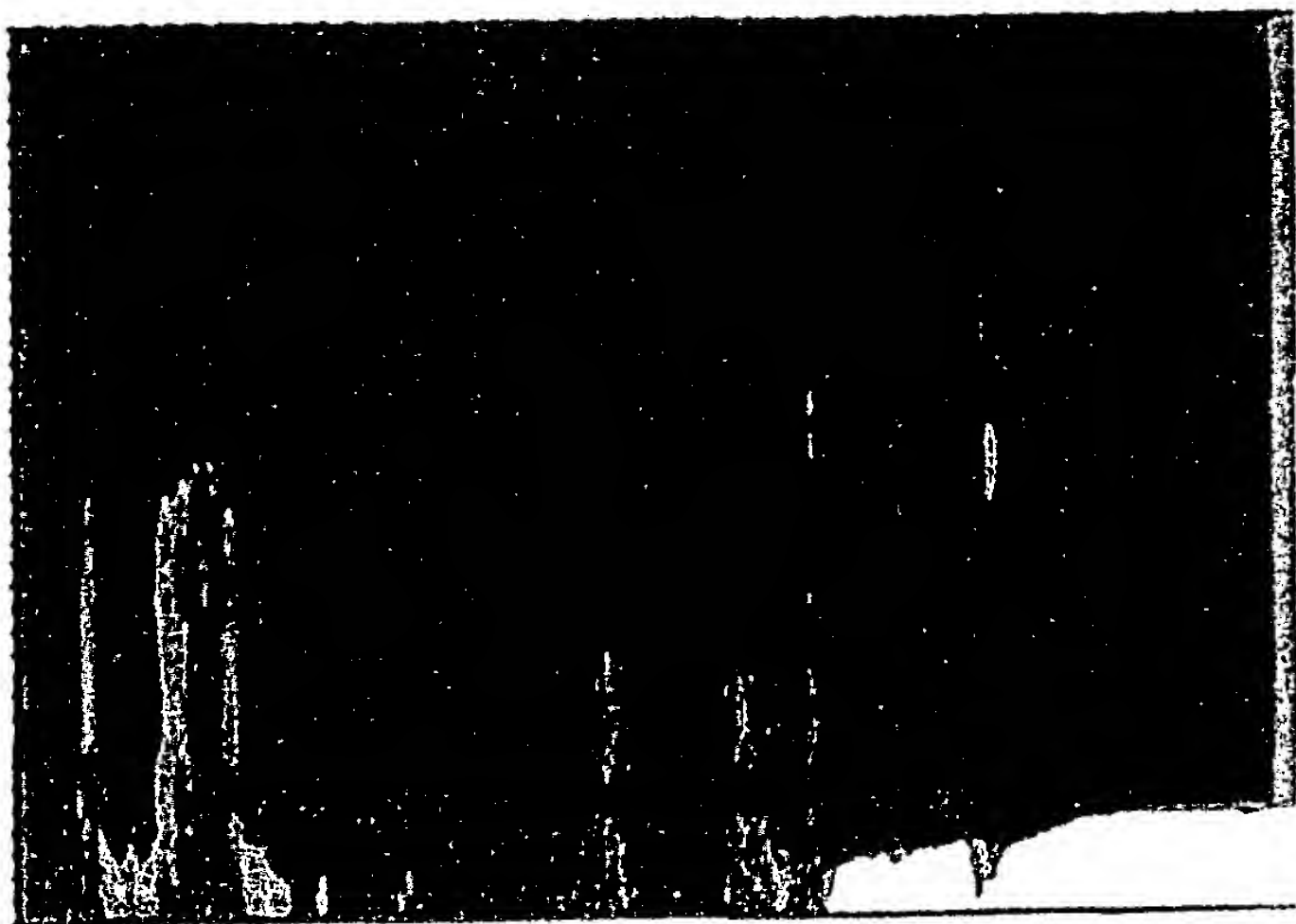
KRIMIKUTARA RAS

Display Window For Krimikutara Ras

Figure 103

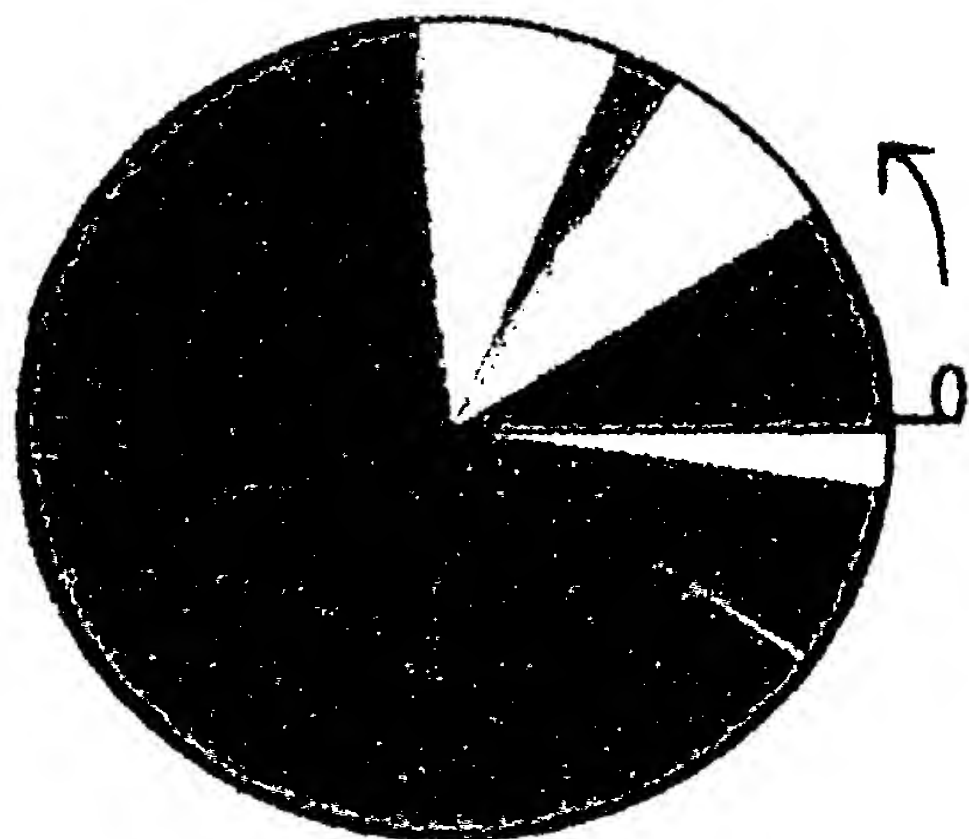


Percentage of pixels represents the constituents.



~~PIE DIAGRAM OF AZARDIRACTA INDICA~~
~~(Tender leaves in February)~~

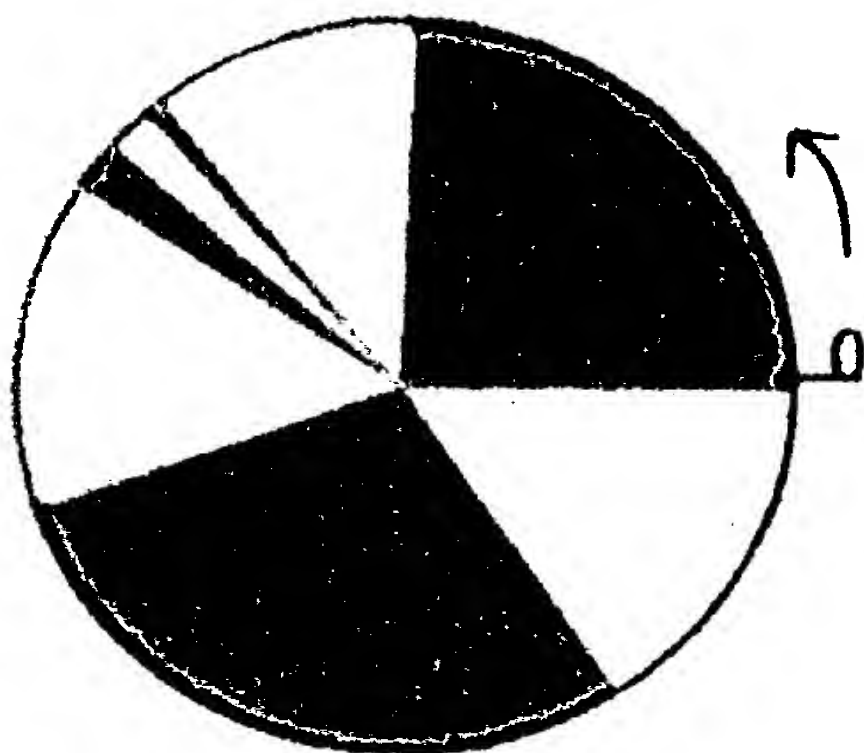
Figure 104



| | |
|---------|--------------|
| Peak 1 | 9.27475 % |
| Peak 2 | 7.0686646 % |
| Peak 3 | 0.06434415 % |
| Peak 4 | 0.3860649 % |
| Peak 5 | 2.3163893 % |
| Peak 6 | 7.620186 % |
| Peak 7 | 64.197075 % |
| Peak 8 | 0.32172075 % |
| Peak 9 | 2.9598308 % |
| Peak 10 | 0.11030425 % |
| Peak 11 | 3.7227685 % |
| Peak 12 | 0.08272819 % |
| Peak 13 | 0.54232925 % |
| Peak 14 | 0.97435427 % |
| Peak 15 | 0.07353617 % |
| Peak 16 | 0.28495267 % |



Figure 105



| | | |
|--------|-----------|---|
| Peak 1 | 24.507833 | % |
| Peak 2 | 11.410205 | % |
| Peak 3 | 0.9240659 | % |
| Peak 4 | 1.9552698 | % |
| Peak 5 | 2.1561537 | % |
| Peak 6 | 14.624347 | % |
| Peak 7 | 29.007635 | % |
| Peak 8 | 14.918977 | % |
| Peak 9 | 0.4955136 | % |

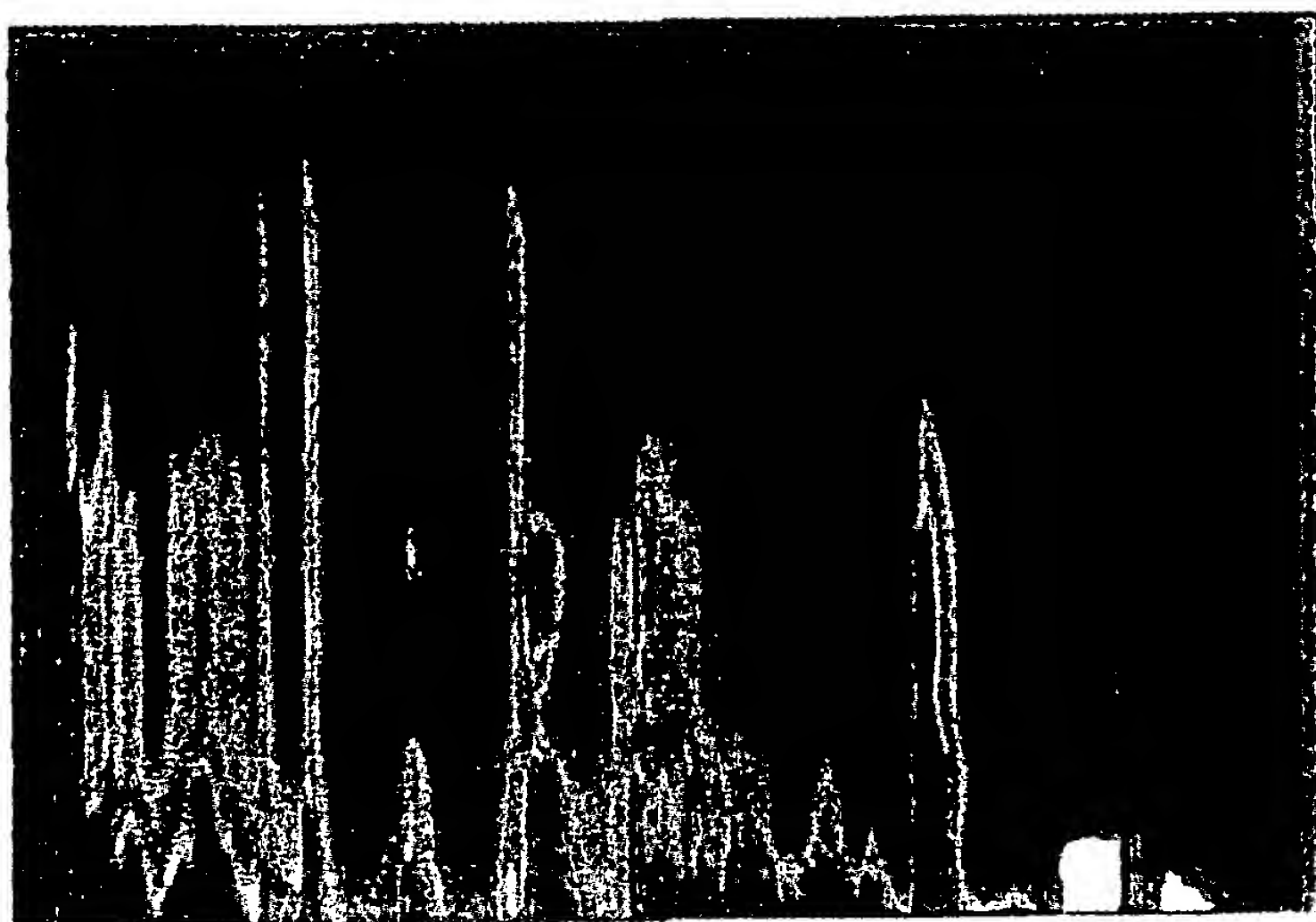
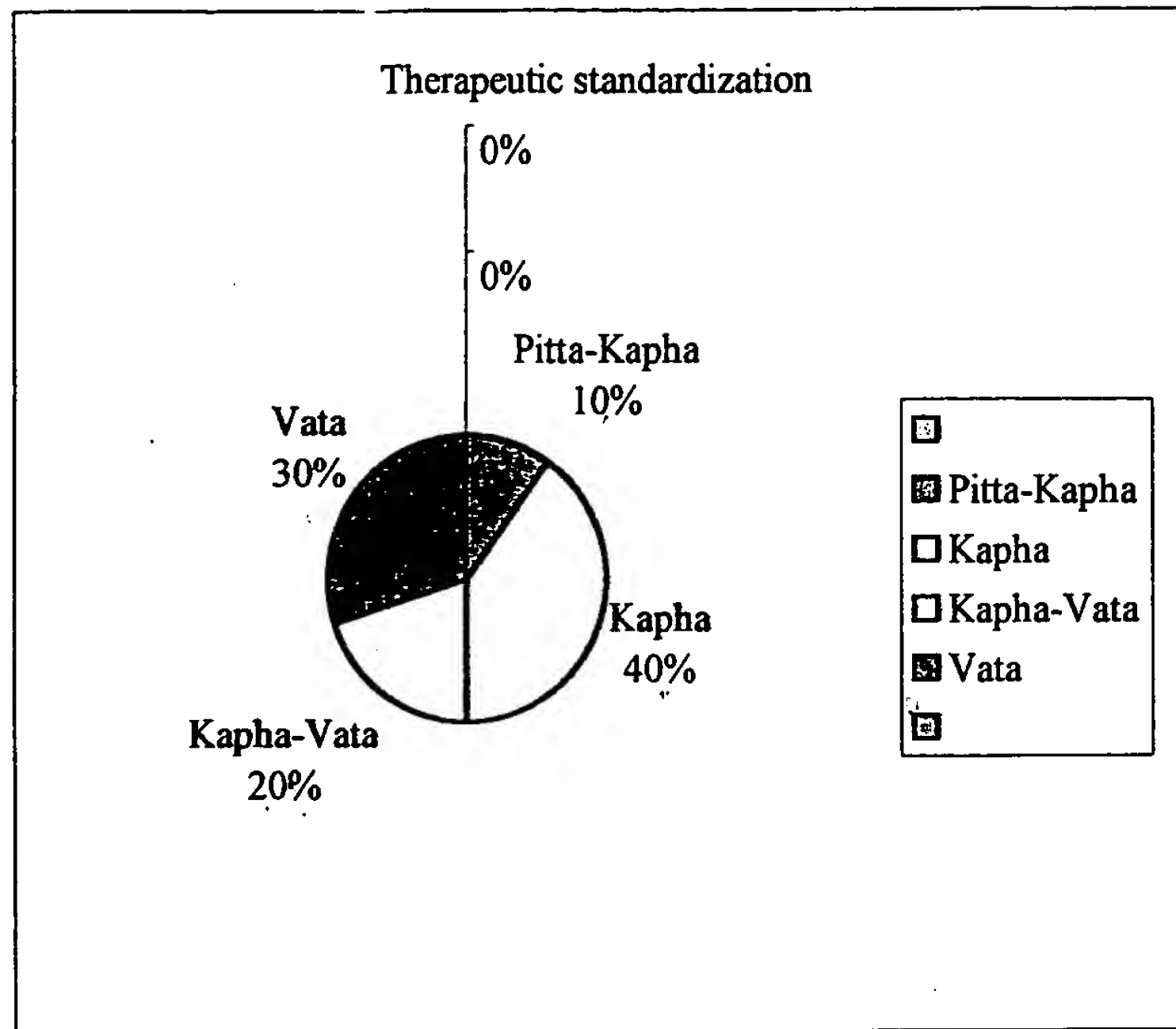


Figure 106

~~Pixel values or percentage values from graphs.~~

Pitta-Kaph: 10
Kapha 40
Kapha-Vat: 20
Vata 30

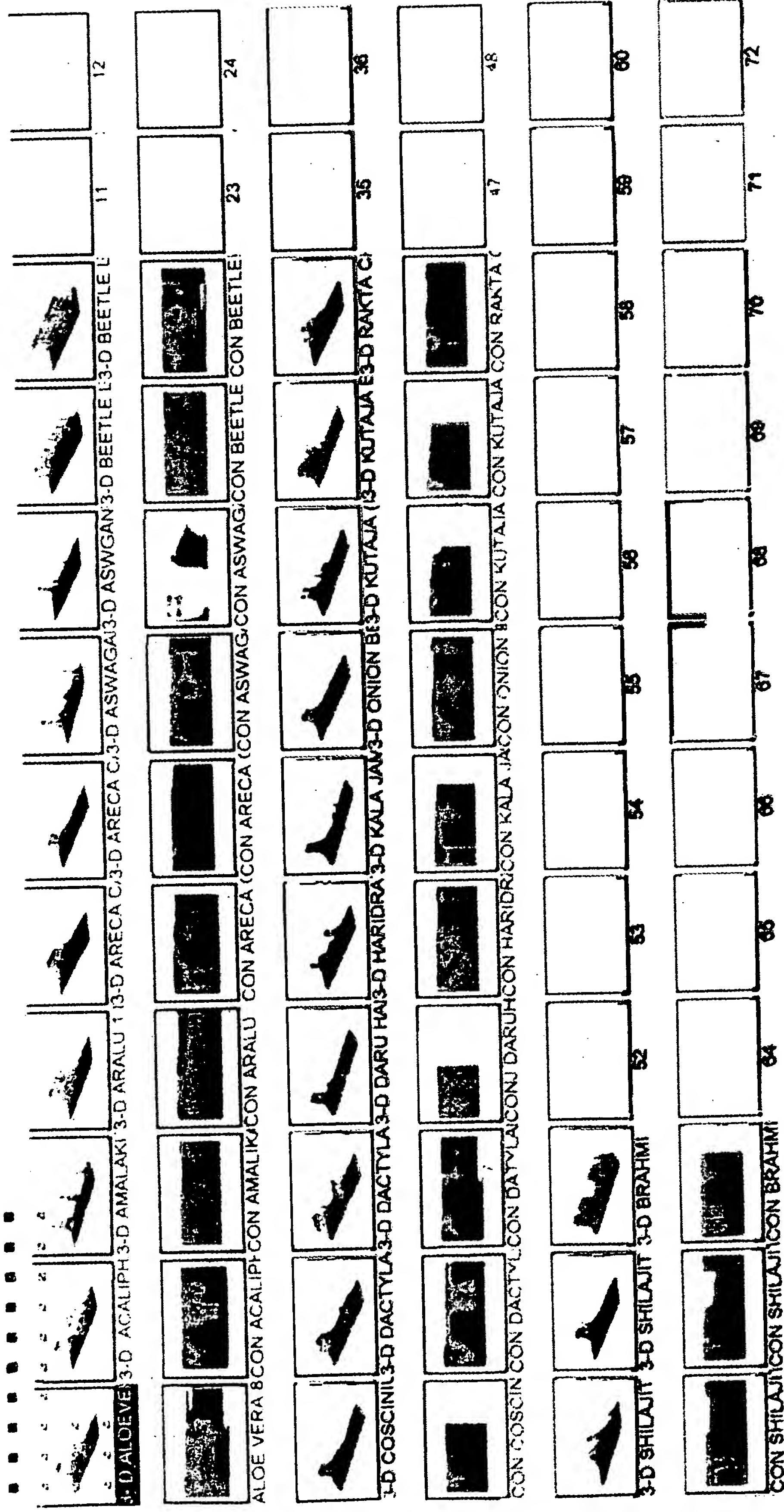


~~This gives the efficacy of the medicine due to the constituents present in various zones of the fingerprint.~~

~~The values of pixels were taken generally and are not for a chromatogram. This figure only shows only how it appears.~~

C:\WINDOWS\DESKTOP\Director files\SINGLE PLANTS

Figure 109

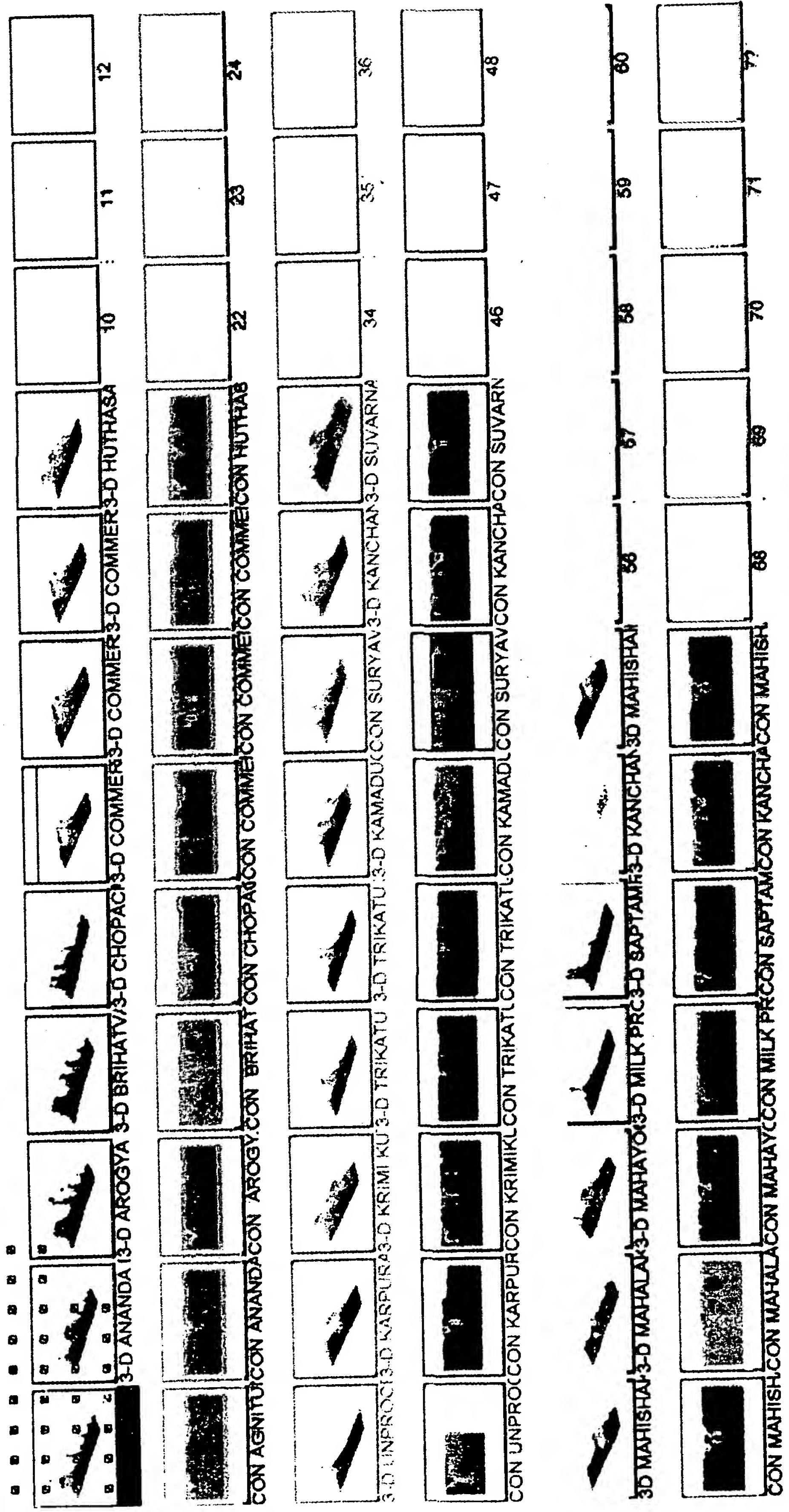


~~These libraries of 3d and contour images of medicines will be prepared as a database for various ERP and CRM applications. The 3d and Contour chromatograms are given in top and bottom lines.~~

~~Databases based on color, taste, odour, therapeutic value, phytochemical parameters can~~

D:\WINDOWS\DESKTOP\Director files\HERBAL FORMULATIONS

Figure 110

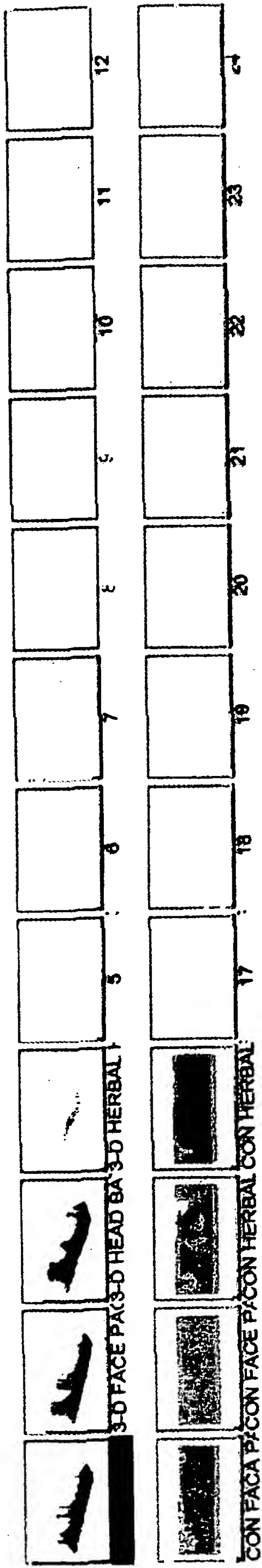


These will help the industry to monitor their product profile for the market and also for proper standardization to prepare a formulation.

C:\WINDOWS\DESKTOP\Director files\COMMERCIAL SAMPLES

• • • •
• • • •

Figure 111

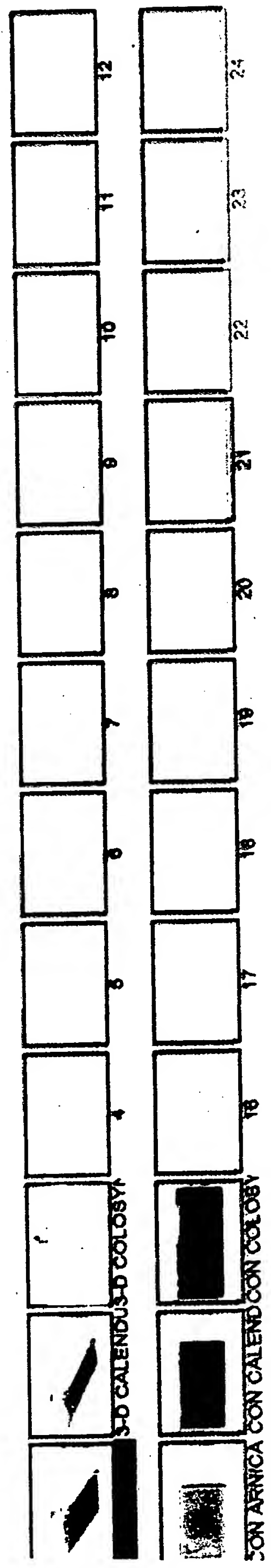


Example-for-adulterated cosmetic samples.

C:\WINDOWS\DESKTOP\Director files\HOMOEEO MEDICINES

• • •
• • •

Figure 112



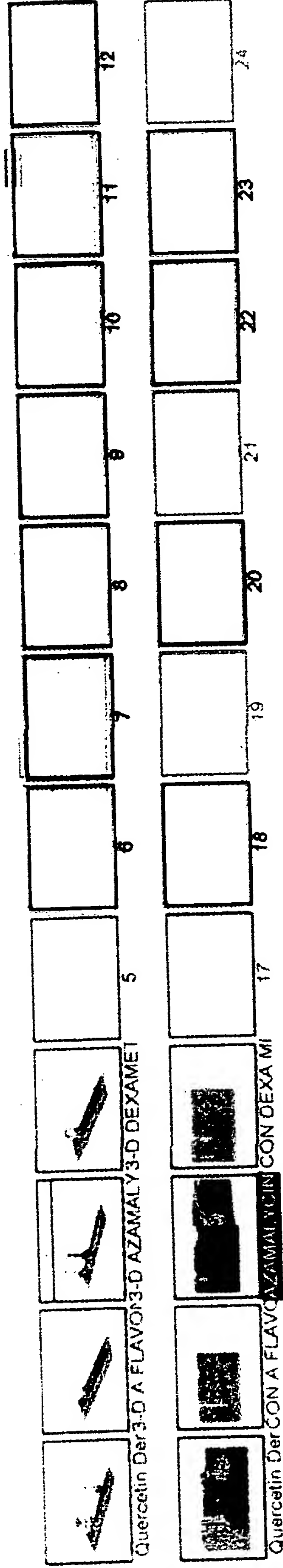
~~The fingerprint of Mother thicture only were done. They can be done to the level of
fanto gram level as the PDA detectives are very sensitive. Hence ditution can also be
fingerprinted~~

Fri, Sep 22, 2000

C:\WINDOWS\DESKTOP\Director files\ISO / TED COMPOUNDS

Figure 113

2 2 2 2
2 2 2 2

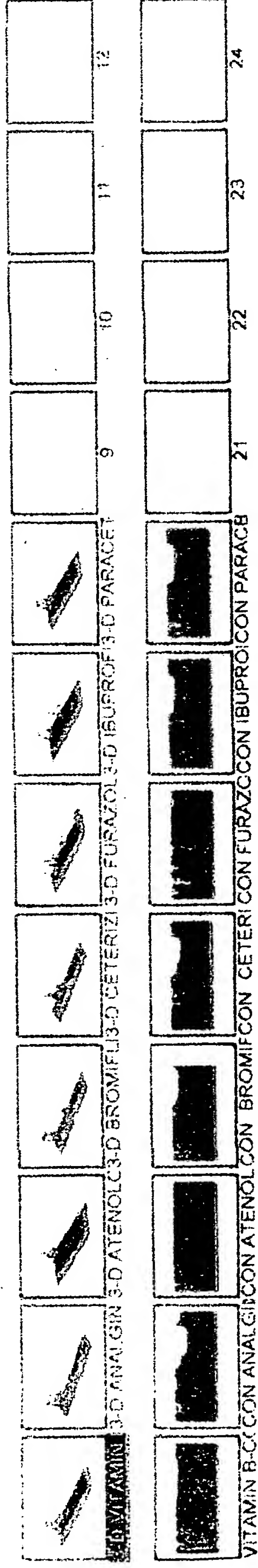


~~This helps to know the purity after isolation and to know the UV spectra of an unknown molecule.~~

C:\WINDOWS\DESKTOP\Director files\ALLOPATHIC MEDICINES

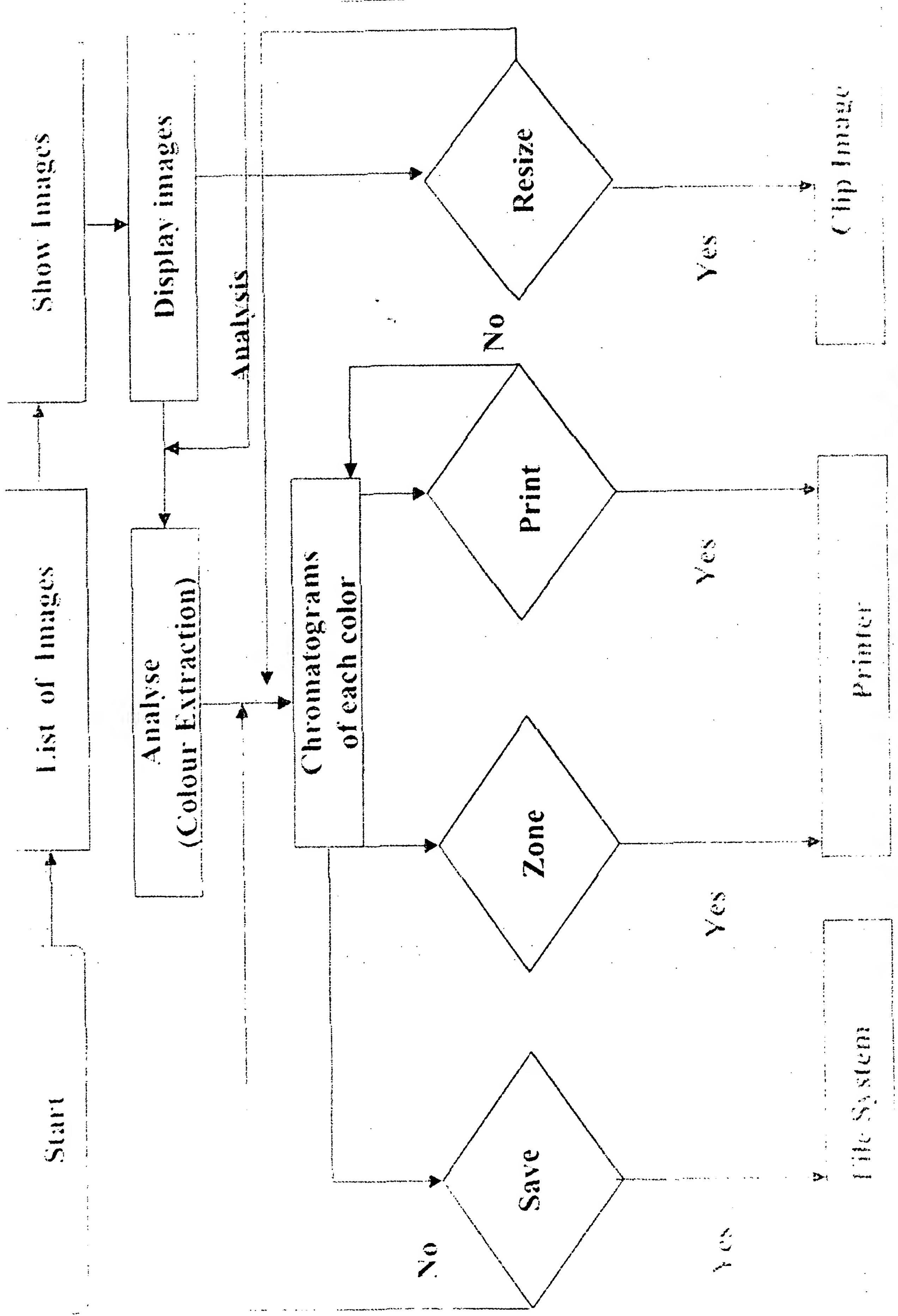
.....
.....

Figure 114



~~This method can be used for all allopathic medicines for chemical and therapeutic standardization.~~

Figure 115



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